

# Xtra-Guard® Flex Cables

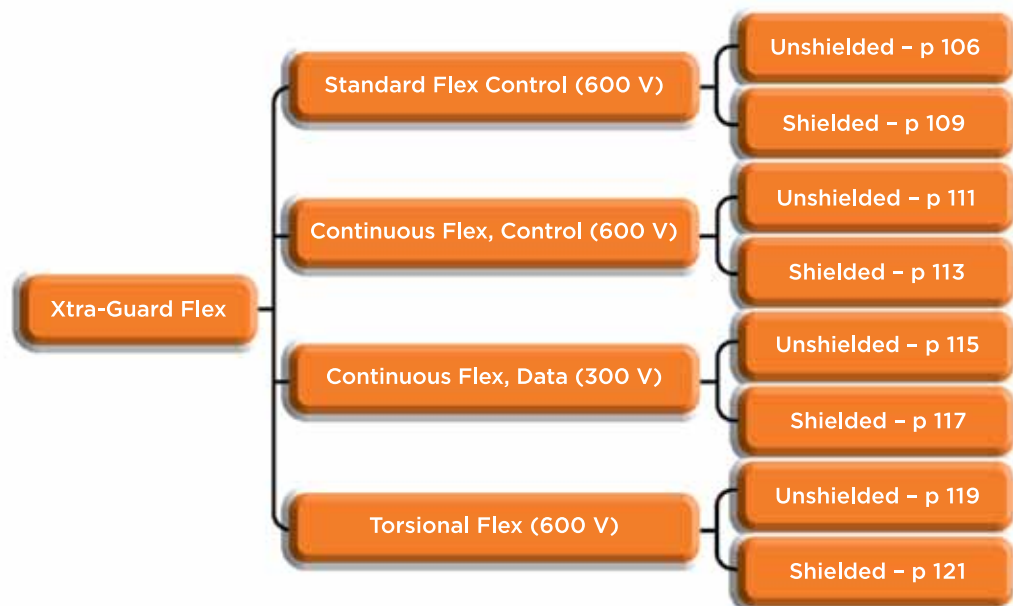
## Flexible/Flexing



Meet a wide range of flexing needs with Xtra-Guard Flex cables, from light flexing to continuous multiaxis flexing. These long-lasting flexible cables are designed to provide

excellent performance in high-flex, high torsion, and continuous flex applications, such as motion control and robotics.

Application	Xtra-Guard Cable	Voltage Rating	Flex Cycles
Light to moderate flexing	Xtra-Guard Standard Flex Control	600	1 million
Continuous flex control	Xtra-Guard Continuous Flex Control	600	14 million
Continuous flex data	Xtra-Guard Continuous Flex Data	300	6 million
Torsional flex	Xtra-Guard Torsional Flex	600	1 million



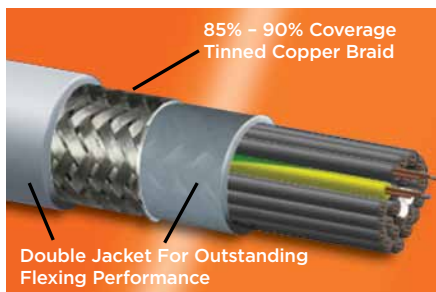
# Xtra-Guard® Flex Cables

## Flexible/Flexing

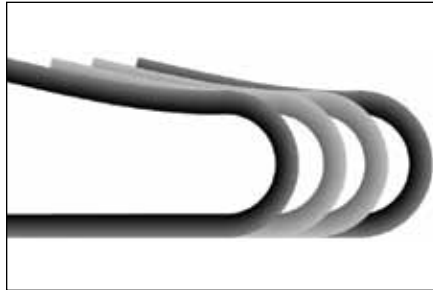
Xtra-Guard cables are available in a variety of configurations to allow exactly the right cable to be selected for your flexing application. There are four common types of cable flexing movements to consider when designing and applying a high-flexing cable and they are:

- **Rolling flex**, such as C-track or Cartesian motions
- **Bending flex** or “tic-toc,” such as hinged panels
- **Torsional flex**, such as twisting
- **Variable/random motion flex**

Different cable construction methods and materials are used depending on the cable flexing movement. For example: torsional cables will have a different lay length and cabling from a rolling flex cable. The performance of a cable is evaluated using physical test data and statistical analysis to produce what is known as “flex life” and overall system reliability.

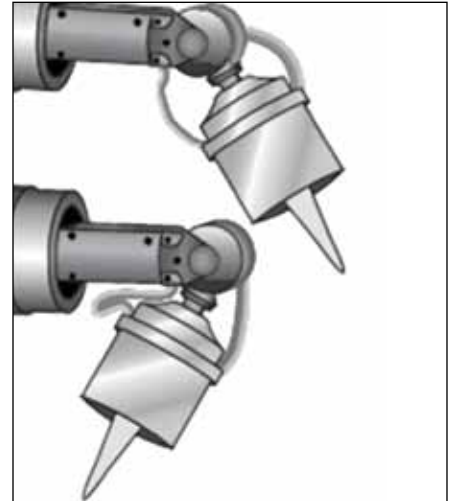


Our high-flex shielding options include a double-jacket configuration with 85% braid coverage to achieve high shielding effectiveness while maintaining the desired flexibility. For torsional flex applications, we offer spiral wound shielding with 90% coverage.



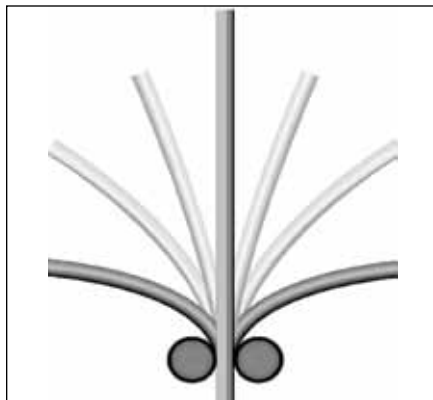
### Rolling Flex

- Xtra-Guard Continuous Flex Control Cable (600 V)
- Xtra-Guard Continuous Flex Data Cable (300 V)



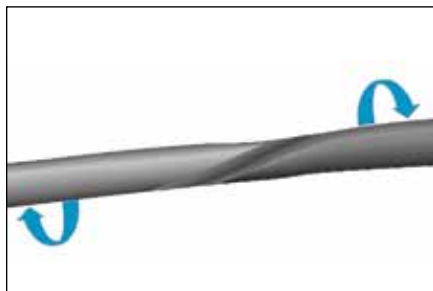
### Variable/Random Flex

- Xtra-Guard Standard Flex Cable (600 V)
- Xtra-Guard Continuous Flex Control Cable (600 V)
- Xtra-Guard Continuous Flex Data Cable (300 V)



### Bending Flex

- Xtra-Guard Standard Flex Cable (600 V)
- Xtra-Guard Continuous Flex Control Cable (600 V)
- Xtra-Guard Continuous Flex Data Cable (300 V)



### Torsion Flex

- Xtra-Guard Torsional Flex Cable (600 V)

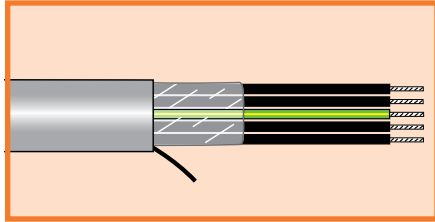
### Applications

- Cartesian robots
- Articulated multi-axis robots
- Automation networking
- Machine tools
- Automotive assembly equipment
- Conveyor systems
- Control panels
- Flex and static track
- Transfer shuttles
- Sensor/actuator-to-controller connections
- Material-handling equipment

# Xtra-Guard® Standard Flex Control Cable



Light to Moderate Flex Applications  
600 V Unshielded, Multiconductor



**UL AWM 2587**  
**CSA AWM I/II A/B FT1**  
**CE**

### Operating Temperature

- -5°C to +90°C (flexing)
- -40°C to +90°C (stationary)

### Conductor Color Coding

- Numbered black conductors
- 1 yellow/green ground conductor (3 conductor and greater)
- Jacket color: slate

### Materials

- Finely stranded bare copper conductors
- Lubricated PVC insulation
- Oil-resistant PVC jacket

### Availability

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

### FIT® Tubing Recommendations

- FIT-FLEX: Highly flexible, cross-linked silicone rubber
- FIT-650: Chemical/temperature resistant cross-linked fluoroelastomer

## 20 AWG (0.51 mm<sup>2</sup>)

Stranding: 10/30 (10 x 0.25 mm)  
Insulation thickness: 0.022 (0.56 mm)

Part No.	Conductors	Nominal Diameter		Jacket Thickness	
		Inch	mm	Inch	mm
65002	2	0.238	6.05	0.035	0.89
65003	3	0.251	6.38	0.035	0.89
65004	4	0.272	6.91	0.035	0.89
65005	5	0.305	7.75	0.038	0.97
65007	7	0.327	8.31	0.038	0.97
65009	9	0.416	10.57	0.040	1.02
65012	12	0.433	11.00	0.045	1.14
65018	18	0.527	13.39	0.055	1.40
65025	25	0.615	15.62	0.055	1.40

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

Stranding: 16/30 (16 x 0.25 mm)  
Insulation thickness: 0.022 (0.56 mm)

Part No.	Conductors	Nominal Diameter		Jacket Thickness	
		Inch	mm	Inch	mm
65802	2	0.258	6.55	0.035	0.89
65803	3	0.272	6.91	0.035	0.89
65804	4	0.296	7.52	0.035	0.89
65805	5	0.326	8.28	0.035	0.89
65807	7	0.351	8.92	0.035	0.89
65809	9	0.445	11.30	0.035	0.89
65812	12	0.470	11.94	0.043	1.09
65818	18	0.567	14.40	0.050	1.27
65825	25	0.666	16.92	0.050	1.27
65834	34	0.769	19.53	0.060	1.52
65841	41	0.835	21.21	0.063	1.60
65850	50	0.967	24.56	0.083	2.11

## 16 AWG (1.32 mm<sup>2</sup>)

Stranding: 26/30 (26 x 0.25 mm)  
Insulation thickness: 0.022 (0.56 mm)

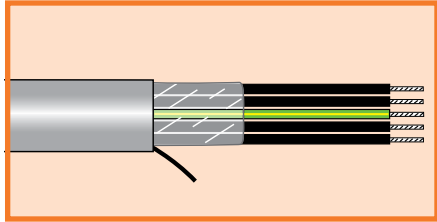
Part No.	Conductors	Nominal Diameter		Jacket Thickness	
		Inch	mm	Inch	mm
65602	2	0.284	7.21	0.035	0.89
65603	3	0.300	7.62	0.035	0.89
65604	4	0.328	8.33	0.035	0.89
65605	5	0.361	9.17	0.035	0.89
65607	7	0.390	9.91	0.035	0.89
65609	9	0.509	12.93	0.041	1.04
65612	12	0.536	13.61	0.049	1.24
65618	18	0.632	16.05	0.050	1.27
65625	25	0.756	19.20	0.055	1.40
65641	41	0.959	24.36	0.075	1.90
65650	50	1.079	27.41	0.083	2.11



# Xtra-Guard® Standard Flex Control Cable



Light to Moderate Flex Applications  
600 V Unshielded, Multiconductor



**UL AWM 2587**  
**CSA AWM I/II A/B FT1**  
**CE**

### Operating Temperature

- -5°C to +90°C (flexing)
- -40°C to +90°C (stationary)

### Conductor Color Coding

- Numbered black conductors
- 1 yellow/green ground conductor (3 conductor and greater)
- Jacket color: slate

### Materials

- Finely stranded bare copper conductors
- Lubricated PVC insulation
- Oil-resistant PVC jacket

### Availability

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

### FIT® Tubing Recommendations

- FIT-FLEX: Highly flexible, cross-linked silicone rubber
- FIT-650: Chemical/temperature resistant cross-linked fluoroelastomer

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

Stranding: 41/30 (41 x 0.25 mm)  
Insulation thickness: 0.022 (0.56 mm)

Part No.	Conductors	Nominal Diameter		Jacket Thickness	
		Inch	mm	Inch	mm
65402	2	0.330	8.38	0.044	1.12
65403	3	0.351	8.92	0.045	1.14
65404	4	0.404	10.26	0.055	1.40
65405	5	0.439	11.15	0.055	1.40
65407	7	0.479	12.17	0.058	1.47
65409	9	0.609	15.47	0.063	1.60
65412	12	0.667	16.94	0.085	2.16
65418	18	0.783	19.89	0.090	2.29
65425	25	0.953	24.21	0.110	2.79

## 12 AWG (3.29 mm<sup>2</sup>)

Stranding: 65/30 (65 x 0.25 mm)  
Insulation thickness: 0.022 (0.56 mm)

Part No.	Conductors	Nominal Diameter		Jacket Thickness	
		Inch	mm	Inch	mm
65203	3	0.436	11.07	0.067	1.70
65204	4	0.500	12.70	0.080	2.03
65205	5	0.553	14.05	0.086	2.18
65207	7	0.592	15.04	0.086	2.18

## 10 AWG (5.32 mm<sup>2</sup>)

Stranding: 105/30 (105 x 0.25 mm)  
Insulation thickness: 0.022 (0.56 mm)

Part No.	Conductors	Nominal Diameter		Jacket Thickness	
		Inch	mm	Inch	mm
65103	3	0.516	13.11	0.080	2.03
65104	4	0.568	14.43	0.084	2.13
65105	5	0.629	15.98	0.090	2.29

## 8 AWG (8.32 mm<sup>2</sup>)

Stranding: 65/26 (65 x 0.40 mm)  
Insulation thickness: 0.032 (0.81 mm)

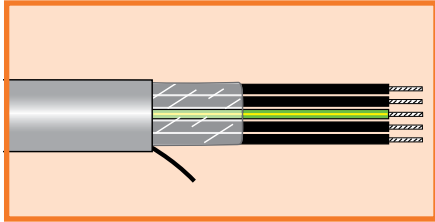
Part No.	Conductors	Nominal Diameter		Jacket Thickness	
		Inch	mm	Inch	mm
65904	4	0.691	17.55	0.085	2.16
65905	5	0.765	19.43	0.090	2.29



# Xtra-Guard® Standard Flex Control Cable



Light to Moderate Flex Applications  
600 V Unshielded, Multiconductor



**UL AWM 2587**  
**CSA AWM I/II A/B FT1**  
**CE**

### Operating Temperature

- -5°C to +90°C (flexing)
- -40°C to +90°C (stationary)

### Conductor Color Coding

- Numbered black conductors
- 1 yellow/green ground conductor
- Jacket color: slate

### Materials

- Finely stranded bare copper conductors
- Lubricated PVC insulation
- Oil-resistant PVC jacket

### Availability

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

### FIT® Tubing Recommendations

- FIT-FLEX: Highly flexible, cross-linked silicone rubber
- FIT-650: Chemical/temperature resistant cross-linked fluoroelastomer

## 6 AWG (13.44 mm<sup>2</sup>)

Stranding: 105/26 (105 x 0.40 mm)  
Insulation thickness: 0.047 (1.19 mm)

Part No.	Conductors	Nominal Diameter		Jacket Thickness	
		Inch	mm	Inch	mm
<b>65704</b>	4	0.891	22.63	0.100	2.54
<b>65705</b>	5	0.985	25.02	0.105	2.67

## 4 AWG (21.5 mm<sup>2</sup>)

Stranding: 168/26 (168 x 0.40 mm)  
Insulation thickness: 0.047 (1.19 mm)

Part No.	Conductors	Nominal Diameter		Jacket Thickness	
		Inch	mm	Inch	mm
<b>65504</b>	4	1.080	27.43	0.100	2.54
<b>65505</b>	5	1.207	30.66	0.110	2.79

## 2 AWG (34.05 mm<sup>2</sup>)

Stranding: 266/26 (266 x 0.40 mm)  
Insulation thickness: 0.047 (1.19 mm)

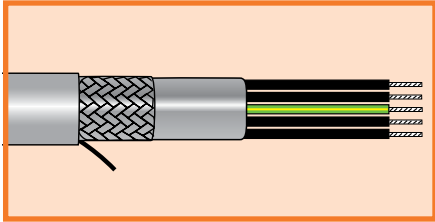
Part No.	Conductors	Nominal Diameter		Jacket Thickness	
		Inch	mm	Inch	mm
<b>65304</b>	4	1.273	32.33	0.120	3.05
<b>65305</b>	5	1.428	36.27	0.135	3.43



# Xtra-Guard® Standard Flex Control Cable



Light to Moderate Flex Applications  
600 V Shielded, Multiconductor



**UL AWM 2587**  
**CSA AWM I/II A/B FT1**  
**CE**

### Operating Temperature

- -5°C to +90°C (flexing)
- -40°C to +90°C (stationary)

### Conductor Color Coding

- Numbered black conductors
- 1 yellow/green ground conductor
- Jacket color: slate

### Materials

- Finely stranded bare copper conductors
- Lubricated PVC Insulation
- Oil-resistant PVC jacket
- Tinned copper braid shield, 85% coverage

### Availability

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

### FIT® Tubing Recommendations

- FIT-FLEX: Highly flexible, cross-linked silicone rubber
- FIT-650: Chemical/temperature resistant cross-linked fluoroelastomer

### 20 AWG (0.51 mm<sup>2</sup>)

Stranding: 10/30 (10 x 0.25 mm)  
Insulation thickness: 0.022 (0.56 mm)

Part No.	Conductors	Nominal Diameter		Jacket Thickness	
		Inch	mm	Inch	mm
65003CY	3	0.339	8.61	0.035	0.89
65007CY	7	0.409	10.39	0.035	0.89
65012CY	12	0.521	13.23	0.040	1.02
65025CY	25	0.712	18.08	0.050	1.27

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

Stranding: 16/30 (16 x 0.25 mm)  
Insulation thickness: 0.022 (0.56 mm)

Part No.	Conductors	Nominal Diameter		Jacket Thickness	
		Inch	mm	Inch	mm
65803CY	3	0.360	9.14	0.035	0.89
65804CY	4	0.384	9.75	0.035	0.89
65805CY	5	0.414	10.52	0.035	0.89
65807CY	7	0.439	11.15	0.035	0.89
65812CY	12	0.568	14.43	0.045	1.14
65818CY	18	0.671	17.04	0.053	1.35
65825CY	25	0.776	19.71	0.053	1.35

### 16 AWG (1.32 mm<sup>2</sup>)

Stranding: 26/30 (26 x 0.25 mm)  
Insulation thickness: 0.022 (0.56 mm)

Part No.	Conductors	Nominal Diameter		Jacket Thickness	
		Inch	mm	Inch	mm
65603CY	3	0.388	9.86	0.035	0.89
65604CY	4	0.416	10.57	0.035	0.89
65605CY	5	0.449	11.40	0.035	0.89
65607CY	7	0.484	12.29	0.035	0.89
65612CY	12	0.640	16.26	0.052	1.32
65618CY	18	0.767	19.48	0.062	1.57
65625CY	25	0.901	22.89	0.067	1.70

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

Stranding: 41/30 (41 x 0.25 mm)  
Insulation thickness: 0.022 (0.56 mm)

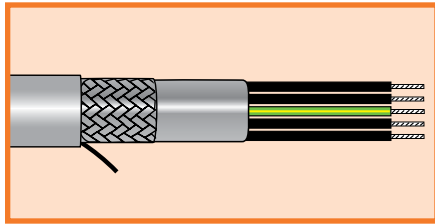
Part No.	Conductors	Nominal Diameter		Jacket Thickness	
		Inch	mm	Inch	mm
65403CY	3	0.443	11.25	0.042	1.07
65404CY	4	0.486	12.34	0.047	1.19
65405CY	5	0.537	13.64	0.052	1.32
65407CY	7	0.581	14.76	0.057	1.45
65412CY	12	0.732	18.59	0.062	1.57
65418CY	18	0.890	22.61	0.083	2.11



# Xtra-Guard® Standard Flex Control Cable



Light to Moderate Flex Applications  
600 V Shielded, Multiconductor



**UL AWM 2587**  
**CSA AWM I/II A/B FT1**  
**CE**

### Operating Temperature

- 5°C to +90°C (flexing)
- 40°C to +90°C (stationary)

### Conductor Color Coding

- Numbered black conductors
- 1 yellow/green ground conductor
- Jacket color: slate

### Materials

- Finely stranded bare copper conductors
- Lubricated PVC Insulation
- PVC inner jacket
- Oil-resistant PVC jacket
- Tinned copper braid shield, 85% coverage

### Availability

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

### FIT® Tubing Recommendations

- FIT-FLEX: Highly flexible, cross-linked silicone rubber
- FIT-650: Chemical/temperature resistant cross-linked fluoroelastomer

#### 12 AWG (3.31 mm<sup>2</sup>)

Stranding: 65/30 (65 x 0.25 mm)  
Insulation thickness: 0.022 (0.56 mm)

Part No.	Conductors	Nominal Diameter		Jacket Thickness	
		Inch	mm	Inch	mm
<b>65203CY</b>	3	0.530	13.46	0.060	1.52
<b>65204CY</b>	4	0.616	15.65	0.066	1.68
<b>65205CY</b>	5	0.671	17.04	0.073	1.85

#### 10 AWG (5.32 mm<sup>2</sup>)

Stranding: 105/30 (105 x 0.25 mm)  
Insulation thickness: 0.022 (0.56 mm)

Part No.	Conductors	Nominal Diameter		Jacket Thickness	
		Inch	mm	Inch	mm
<b>65103CY</b>	3	0.630	16.00	0.070	1.78
<b>65104CY</b>	4	0.684	17.37	0.070	1.78
<b>65105CY</b>	5	0.757	19.23	0.077	1.96
<b>65107CY</b>	7	0.823	20.90	0.083	2.11

#### 8 to 2 AWG (8.32 to 34.05 mm<sup>2</sup>)

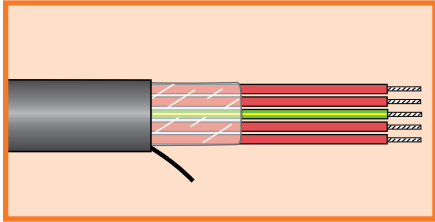
Part No.	Conductors	Wire Size		Stranding		Nominal Diameter		Jacket Thickness		Insulation Thickness	
		AWG	mm <sup>2</sup>	AWG	mm	Inch	mm	Inch	mm	Inch	mm
<b>65904CY</b>	4	8	8.32	65/26	65 x 0.40	0.822	20.88	0.075	1.90	0.032	0.81
<b>65704CY</b>	4	6	13.44	105/26	105 x 0.40	1.062	26.97	0.100	2.54	0.047	1.19
<b>65504CY</b>	4	4	21.55	168/26	168 x 0.40	1.251	31.78	0.100	2.54	0.047	1.19
<b>65304CY</b>	4	2	34.05	266/26	266 x 0.40	1.453	36.91	0.110	2.79	0.047	1.19



# Xtra-Guard® Continuous Flex Control



C-Track or High Flexing Applications Up to 14 Million Flex Life Cycles  
600 V Unshielded, Multiconductor



**UL AWM 2587**  
**CSA AWM I/II A/B FT1**  
**CE**

### Operating Temperature

- -5°C to +90°C (flexing)
- -40°C to +90°C (stationary)

### Conductor Color Coding

- Numbered red conductors
- 1 yellow/green ground conductor
- Jacket color: black

### Materials

- Finely stranded tinned copper conductors
- Lubricated PVC insulation
- Oil-resistant PVC jacket

### Availability

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

### FIT® Tubing Recommendations

- FIT-FLEX: Highly flexible, cross-linked silicone rubber
- FIT-650: Chemical/temperature resistant cross-linked fluoroelastomer



## 20 AWG (0.51 mm<sup>2</sup>)

Stranding: 63/38 (63 x 0.10 mm)  
Insulation thickness: 0.022 (0.56 mm)

Part No.	Conductors	Nominal Diameter		Jacket Thickness	
		Inch	mm	Inch	mm
85003	3	0.272	6.91	0.035	0.89
85004	4	0.297	7.54	0.035	0.89
85005	5	0.323	8.20	0.035	0.89
85007	7	0.388	9.86	0.040	1.02
85012	12	0.460	11.68	0.045	1.14
85018	18	0.548	13.92	0.050	1.27
85025	25	0.691	17.55	0.065	1.65
85034	34	0.746	18.95	0.065	1.65

## 18 AWG (0.85 mm<sup>2</sup>)

Stranding: 105/38 (105 x 0.10 mm)  
Insulation thickness: 0.022 (0.56 mm)

Part No.	Conductors	Nominal Diameter		Jacket Thickness	
		Inch	mm	Inch	mm
85803	3	0.298	7.57	0.035	0.89
85804	4	0.326	8.28	0.035	0.89
85805	5	0.355	9.02	0.035	0.89
85807	7	0.438	11.13	0.045	1.14
85812	12	0.520	13.21	0.050	1.27
85815	15	0.577	14.66	0.050	1.27
85818	18	0.608	15.44	0.050	1.27
85825	25	0.767	19.48	0.065	1.65
85834	34	0.830	21.08	0.065	1.65

## 16 AWG (1.36 mm<sup>2</sup>)

Stranding: 168/38 (168 x 0.10 mm)  
Insulation thickness: 0.022 (0.56 mm)

Part No.	Conductors	Nominal Diameter		Jacket Thickness	
		Inch	mm	Inch	mm
85603	3	0.331	8.41	0.035	0.89
85604	4	0.362	9.19	0.035	0.89
85605	5	0.396	10.06	0.035	0.89
85607	7	0.478	12.14	0.040	1.02
85612	12	0.573	14.55	0.045	1.14
85618	18	0.674	17.12	0.045	1.14
85625	25	0.862	21.89	0.065	1.65
85634	34	0.936	23.77	0.065	1.65
85650	50	1.161	29.49	0.085	2.16

## 14 AWG (2.16 mm<sup>2</sup>)

Stranding: 266/38 (266 x 0.10 mm)  
Insulation thickness: 0.022 (0.56 mm)

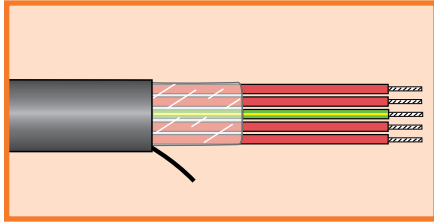
Part No.	Conductors	Nominal Diameter		Jacket Thickness	
		Inch	mm	Inch	mm
85404	4	0.424	10.77	0.050	1.27
85407	7	0.582	14.78	0.070	1.78



# Xtra-Guard® Continuous Flex Control



C-Track or High Flexing Applications Up to 14 Million Flex Life Cycles  
600 V Unshielded, Multiconductor



### Availability

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

### FIT® Tubing Recommendations

- FIT-FLEX: Highly flexible, cross-linked silicone rubber
- FIT-650: Chemical/temperature resistant cross-linked fluoroelastomer

**UL AWM 2587**  
**CSA AWM I/II A/B FT1**  
**CE**

### Operating Temperature

- -5°C to +90°C (flexing)
- -40°C to +90°C (stationary)

### Conductor Color Coding

- Numbered red conductors
- 1 yellow/green ground conductor
- Jacket color: black

### Materials

- Finely stranded tinned copper conductors
- Lubricated PVC insulation
- Oil-resistant PVC jacket

12 AWG (3.35 mm <sup>2</sup> )					
Stranding: 413/38 (413 x 0.10 mm)					
Insulation thickness: 0.022 (0.56 mm)					
Part No.	Conductors	Nominal Diameter		Jacket Thickness	
		Inch	mm	Inch	mm
<b>85204</b>	4	0.527	13.39	0.070	1.78
<b>85207</b>	7	0.729	18.52	0.100	2.54

10 AWG (5.34 mm <sup>2</sup> )					
Stranding: 658/38 (658 x 0.10 mm)					
Insulation thickness: 0.022 (0.56 mm)					
Part No.	Conductors	Nominal Diameter		Jacket Thickness	
		Inch	mm	Inch	mm
<b>85104</b>	4	0.590	14.99	0.070	1.78
<b>85107</b>	7	0.816	20.73	0.100	2.54

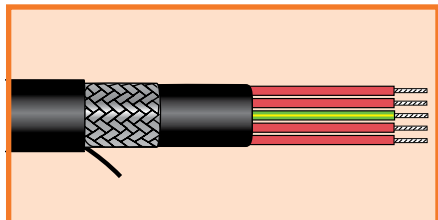
8 to 2 AWG (8.62 to 33.86 mm <sup>2</sup> )											
Part No.	Conductors	Wire Size		Stranding		Nominal Diameter		Jacket Thickness		Insulation Thickness	
		AWG	mm <sup>2</sup>	AWG	mm	Inch	mm	Inch	mm	Inch	mm
<b>85904</b>	4	8	8.62	266/32	266 x 0.20	0.721	18.31	0.070	1.78	0.032	0.81
<b>85704</b>	4	6	13.38	413/32	413 x 0.20	0.935	23.75	0.085	2.16	0.047	1.19
<b>85504</b>	4	4	21.55	665/32	665 x 0.20	1.076	27.33	0.085	2.16	0.047	1.19
<b>85304</b>	4	2	33.86	1045/32	1045 x 0.20	1.250	31.75	0.085	2.16	0.047	1.19



# Xtra-Guard® Continuous Flex Control



C-Track or High Flexing Applications Up to 14 Million Flex Life Cycles  
600 V Shielded, Multiconductor



**UL AWM 2587**  
**CSA AWM I/II A/B FT1**  
**CE**

### Operating Temperature

- -5°C to +90°C (flexing)
- -40°C to +90°C (stationary)

### Conductor Color Coding

- Numbered red conductors
- 1 yellow/green ground conductor
- Jacket color: black

### Materials

- Finely stranded bare copper conductors
- Lubricated PVC insulation
- Tinned copper braid shield, 85% coverage
- PVC inner jacket
- Oil-resistant PVC jacket

### Availability

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

### FIT® Tubing Recommendations

- FIT-FLEX: Highly flexible, cross-linked silicone rubber
- FIT-650: Chemical/temperature resistant cross-linked fluoroelastomer

## 20 AWG (0.51 mm<sup>2</sup>)

Stranding: 63/38 (63 x 0.10 mm)  
Insulation thickness: 0.022 (0.56 mm)

Part No.	Conductors	Nominal Diameter		Jacket Thickness	
		Inch	mm	Inch	mm
85003CY	3	0.350	8.89	0.035	0.89
85004CY	4	0.375	9.53	0.035	0.89
85005CY	5	0.411	10.44	0.040	1.02
85007CY	7	0.482	12.24	0.040	1.02
85010CY	10	0.545	13.84	0.040	1.02
85012CY	12	0.564	14.33	0.050	1.27
85018CY	18	0.662	16.81	0.060	1.52
85025CY	25	0.812	20.62	0.070	1.78

## 18 AWG (0.85 mm<sup>2</sup>)

Stranding: 105/38 (105 x 0.10 mm)  
Insulation thickness: 0.022 (0.56 mm)

Part No.	Conductors	Nominal Diameter		Jacket Thickness	
		Inch	mm	Inch	mm
85803CY	3	0.376	9.55	0.035	0.89
85804CY	4	0.414	10.52	0.040	1.02
85805CY	5	0.453	11.51	0.040	1.02
85807CY	7	0.532	13.51	0.045	1.14
85812CY	12	0.634	16.10	0.060	1.52
85818CY	18	0.725	18.42	0.060	1.52
85825CY	25	0.908	23.06	0.080	2.03

## 16 AWG (1.36 mm<sup>2</sup>)

Stranding: 168/38 (168 x 0.10 mm)  
Insulation thickness: 0.022 (0.56 mm)

Part No.	Conductors	Nominal Diameter		Jacket Thickness	
		Inch	mm	Inch	mm
85603CY	3	0.419	10.64	0.035	0.89
85604CY	4	0.460	11.68	0.040	1.02
85605CY	5	0.500	12.70	0.040	1.02
85607CY	7	0.602	15.29	0.055	1.40
85612CY	12	0.700	17.78	0.060	1.52
85615CY	15	0.769	19.53	0.060	1.52
85618CY	18	0.805	20.45	0.060	1.52
85625CY	25	0.973	24.71	0.065	1.65
85634CY	34	1.087	27.61	0.085	2.16

## 14 AWG (2.16 mm<sup>2</sup>)

Stranding: 266/38 (266 x 0.10 mm)  
Insulation thickness: 0.022 (0.56 mm)

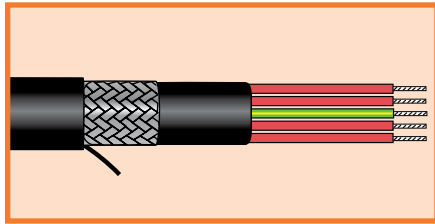
Part No.	Conductors	Nominal Diameter		Jacket Thickness	
		Inch	mm	Inch	mm
85404CY	4	0.528	13.41	0.050	1.27
85407CY	7	0.676	17.17	0.065	1.65



# Xtra-Guard® Continuous Flex Control



C-Track or High Flexing Applications Up to 14 Million Flex Life Cycles  
600 V Shielded, Multiconductor



**UL AWM 2587**  
**CSA AWM I/II A/B FT1**  
**CE**

### Operating Temperature

- 5°C to +90°C (flexing)
- 40°C to +90°C (stationary)

### Conductor Color Coding

- Numbered red conductors
- 1 yellow/green ground conductor
- Jacket color: black

### Materials

- Finely stranded bare copper conductors
- Lubricated PVC insulation
- Tinned copper braid shield, 85% coverage
- PVC inner jacket
- Oil-resistant PVC jacket

### Availability

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

### FIT® Tubing Recommendations

- FIT-FLEX: Highly flexible, cross-linked silicone rubber
- FIT-650: Chemical/temperature resistant cross-linked fluoroelastomer

#### 12 AWG (3.35 mm²)

Stranding: 413/38 (413 x 0.10 mm)  
Insulation thickness: 0.022 (0.56 mm)

Part No.	Conductors	Nominal Diameter		Jacket Thickness	
		Inch	mm	Inch	mm
<b>85204CY</b>	4	0.641	16.28	0.075	1.90
<b>85207CY</b>	7	0.836	21.23	0.100	2.54

#### 10 AWG (5.34 mm²)

Stranding: 658/38 (658 x 0.10 mm)  
Insulation thickness: 0.022 (0.56 mm)

Part No.	Conductors	Nominal Diameter		Jacket Thickness	
		Inch	mm	Inch	mm
<b>85104CY</b>	4	0.707	17.96	0.070	1.78
<b>85107CY</b>	7	0.947	24.05	0.100	2.54

#### 8 to 2 AWG (8.62 to 33.86 mm²)

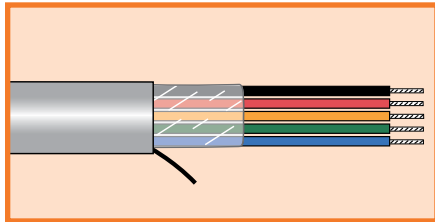
Part No.	Conductors	Wire Size		Stranding		Nominal Diameter		Jacket Thickness		Insulation Thickness	
		AWG	mm²	AWG	mm	Inch	mm	Inch	mm	Inch	mm
<b>85904CY</b>	4	8	8.62	266/32	266 x 0.20	0.882	22.40	0.085	2.16	0.032	0.81
<b>85704CY</b>	4	6	13.38	413/32	413 x 0.20	1.066	27.08	0.085	2.16	0.047	1.19
<b>85504CY</b>	4	4	21.55	665/32	665 x 0.20	1.227	31.17	0.085	2.16	0.047	1.19
<b>85304CY</b>	4	2	33.86	1045/32	1045 x 0.20	1.431	36.35	0.095	2.41	0.047	1.19



# Xtra-Guard® Continuous Flex Data



C-Track or High Flexing Applications Up to 6 Million Flex Life Cycles  
300 V Unshielded, Multiconductor



**UL CM**  
**UL AWM 2661**  
**CSA AWM I/II A/B FT4**  
**CSA CMG**  
**CE**

### Operating Temperature

- +5°C to +105°C (flexing)
- -10°C to +105°C (stationary)

### Conductor Color Coding

- Chart D (page 531)
- Jacket color: slate

### Materials

- Finely stranded tinned copper conductors
- Lubricated semi-rigid PVC insulation
- Oil-resistant PVC jacket

### Availability

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

### FIT® Tubing Recommendations

- FIT-FLEX: Highly flexible, cross-linked silicone rubber
- FIT-650: Chemical/temperature resistant cross-linked fluoroelastomer

## 28 AWG (0.09 mm<sup>2</sup>)

Stranding: 7/36 (7 x 0.13 mm)  
Insulation thickness: 0.010 (0.25 mm)

Part No.	Conductors	Nominal Diameter		Jacket Thickness	
		Inch	mm	Inch	mm
86002	2	0.154	3.91	0.040	1.02
86003	3	0.160	4.06	0.040	1.02
86004	4	0.170	4.32	0.040	1.02
86005	5	0.180	4.57	0.040	1.02
86007	7	0.203	5.16	0.040	1.02
86012	12	0.263	6.68	0.040	1.02
86018	18	0.262	6.65	0.040	1.02
86025	25	0.309	7.85	0.040	1.02

## 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.	Conductors	Nominal Diameter		Jacket Thickness	
		Inch	mm	Inch	mm
86102	2	0.162	4.11	0.040	1.02
86103	3	0.168	4.27	0.040	1.02
86104	4	0.179	4.55	0.040	1.02
86105	5	0.191	4.85	0.040	1.02
86107	7	0.217	5.51	0.040	1.02
86112	12	0.283	7.19	0.040	1.02
86118	18	0.282	7.16	0.040	1.02
86125	25	0.335	8.51	0.040	1.02

## 24 AWG (0.20 mm<sup>2</sup>)

Stranding: 10/34 (10 x 0.16 mm)  
Insulation thickness: 0.010 (0.25 mm)

Part No.	Conductors	Nominal Diameter		Jacket Thickness	
		Inch	mm	Inch	mm
86202	2	0.172	4.37	0.040	1.02
86203	3	0.179	4.55	0.040	1.02
86204	4	0.191	4.85	0.040	1.02
86205	5	0.205	5.21	0.040	1.02
86207	7	0.233	5.92	0.040	1.02
86212	12	0.307	7.80	0.040	1.02
86218	18	0.307	7.80	0.040	1.02
86225	25	0.376	9.55	0.045	1.14

## 22 AWG (0.38 mm<sup>2</sup>)

Stranding: 19/34 (19 x 0.16 mm)  
Insulation thickness: 0.010 (0.25 mm)

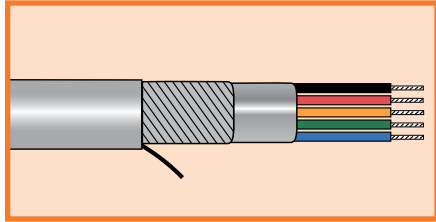
Part No.	Conductors	Nominal Diameter		Jacket Thickness	
		Inch	mm	Inch	mm
86302	2	0.188	4.78	0.040	1.02
86303	3	0.197	5.00	0.040	1.02
86304	4	0.211	5.36	0.040	1.02
86305	5	0.227	5.77	0.040	1.02
86307	7	0.260	6.60	0.040	1.02
86312	12	0.347	8.81	0.040	1.02
86318	18	0.347	8.81	0.040	1.02
86325	25	0.426	10.82	0.045	1.14



# Xtra-Guard® Continuous Flex Data



C-Track or High Flexing Applications Up to 6 Million Flex Life Cycles  
300 V Foil/Spiral Shield, Multiconductor



**UL CM**  
**UL AWM 2661**  
**CSA AWM I/II A/B FT4**  
**CSA CMG**  
**CE**

### Operating Temperature

- +5°C to 105°C (flexing)
- -10°C to 105°C (stationary)

### Conductor Color Coding

- Chart D (page 531)
- Jacket color: slate

### Materials

- Finely stranded tinned copper conductors
- Lubricated semi-rigid PVC insulation
- Foil +spiral shield  
Aluminum/polyester foil shield, 25% overlap min.  
Foil facing outward  
Tinned copper spiral shield, 90% coverage
- Oil-resistant PVC jacket

### Availability

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

### FIT® Tubing Recommendations

- FIT-FLEX: Highly flexible, cross-linked silicone rubber
- FIT-650: Chemical/temperature resistant cross-linked fluoroelastomer



## 28 AWG (0.09 mm²)

Stranding: 7/36 (7 x 0.13 mm)  
Insulation thickness: 0.010 (0.25 mm)

Part No.	Conductors	Nominal Diameter		Jacket Thickness	
		Inch	mm	Inch	mm
86002CY	2	0.174	4.42	0.040	1.02
86003CY	3	0.180	4.57	0.040	1.02
86004CY	4	0.190	4.83	0.040	1.02
86005CY	5	0.200	5.08	0.040	1.02
86007CY	7	0.223	5.66	0.040	1.02
86012CY	12	0.283	7.19	0.040	1.02
86018CY	18	0.282	7.16	0.040	1.02
86025CY	25	0.329	8.36	0.040	1.02

## 26 AWG (0.14 mm²)

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

Part No.	Conductors	Nominal Diameter		Jacket Thickness	
		Inch	mm	Inch	mm
86102CY	2	0.182	4.62	0.040	1.02
86103CY	3	0.188	4.78	0.040	1.02
86104CY	4	0.199	5.05	0.040	1.02
86105CY	5	0.211	5.36	0.040	1.02
86107CY	7	0.237	6.02	0.040	1.02
86112CY	12	0.303	7.70	0.040	1.02
86118CY	18	0.302	7.67	0.040	1.02
86125CY	25	0.355	9.02	0.040	1.02

## 24 AWG (0.20 mm²)

Stranding: 10/34 (10 x 0.16 mm)  
Insulation thickness: 0.010 (0.25 mm)

Part No.	Conductors	Nominal Diameter		Jacket Thickness	
		Inch	mm	Inch	mm
86202CY	2	0.192	4.88	0.040	1.02
86203CY	3	0.199	5.05	0.040	1.02
86204CY	4	0.211	5.36	0.040	1.02
86205CY	5	0.225	5.72	0.040	1.02
86207CY	7	0.253	6.43	0.040	1.02
86212CY	12	0.327	8.31	0.040	1.02
86218CY	18	0.327	8.31	0.040	1.02
86225CY	25	0.396	10.06	0.045	1.14

## 22 AWG (0.38 mm²)

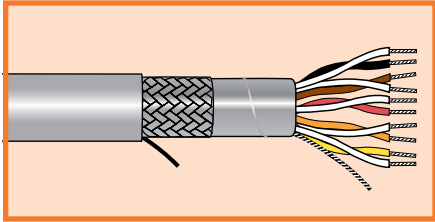
Stranding: 19/34 (19 x 0.16 mm)  
Insulation thickness: 0.010 (0.25 mm)

Part No.	Conductors	Nominal Diameter		Jacket Thickness	
		Inch	mm	Inch	mm
86302CY	2	0.208	5.28	0.040	1.02
86303CY	3	0.217	5.51	0.040	1.02
86304CY	4	0.231	5.87	0.040	1.02
86305CY	5	0.247	6.27	0.040	1.02
86307CY	7	0.280	7.11	0.040	1.02
86312CY	12	0.367	9.32	0.040	1.02
86318CY	18	0.367	9.32	0.040	1.02
86325CY	25	0.446	11.33	0.045	1.14

# Xtra-Guard® Continuous Flex Data



C-Track or High Flexing Applications Up to 6 Million Flex Life Cycles  
300 V Foil/Braid Shield, Multipair



**UL CM**  
**UL AWM 2661**  
**CSA AWM I/II A/B FT4**  
**CSA CMG**  
**CE**

### Operating Temperature

- +5°C to +105°C (flexing)
- -10°C to +105°C (stationary)

### Conductor Color Coding

- Chart A (page 528)
- Jacket color: slate

### Materials

- Finely stranded tinned copper conductors
- Lubricated semi-rigid PVC insulation
- Shield: Combination foil and braid  
Aluminum/polyester foil shield, with 25% overlap and tinned copper drain wire  
Tinned copper braid with 85% coverage
- Oil-resistant PVC jacket

### Availability

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

### FIT® Tubing Recommendations

- FIT-FLEX: Highly flexible, cross-linked silicone rubber
- FIT-650: Chemical/temperature resistant cross-linked fluoroelastomer

## 28 AWG (0.09 mm<sup>2</sup>)

Stranding: 7/36 (7 x 0.13 mm)  
Insulation thickness: 0.010 (0.25 mm)

Part No.	Pairs	Nominal Diameter		Jacket Thickness	
		Inch	mm	Inch	mm
86401CY	1	0.186	4.72	0.040	1.02
86402CY	2	0.231	5.87	0.040	1.02
86403CY	3	0.240	6.10	0.040	1.02
86404CY	4	0.256	6.50	0.040	1.02
86405CY	5	0.274	6.96	0.040	1.02
86406CY	6	0.293	7.44	0.040	1.02
86408CY	8	0.331	8.41	0.040	1.02
86410CY	10	0.365	9.27	0.045	1.14
86414CY	14	0.381	9.68	0.045	1.14

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

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

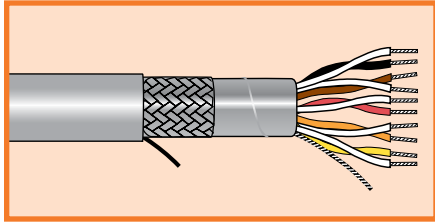
Part No.	Pairs	Nominal Diameter		Jacket Thickness	
		Inch	mm	Inch	mm
86501CY	1	0.194	4.93	0.040	1.02
86502CY	2	0.244	6.20	0.040	1.02
86503CY	3	0.254	6.45	0.040	1.02
86504CY	4	0.272	6.91	0.040	1.02
86505CY	5	0.292	7.42	0.040	1.02
86506CY	6	0.313	7.95	0.040	1.02
86508CY	8	0.355	9.02	0.040	1.02
86510CY	10	0.392	9.96	0.045	1.14
86514CY	14	0.426	10.82	0.053	1.35



# Xtra-Guard® Continuous Flex Data



C-Track or High Flexing Applications Up to 6 Million Flex Life Cycles  
300 V Foil/Braid Shield, Multipair



**UL CM**  
**UL AWM 2661**  
**CSA AWM I/II A/B FT4**  
**CSA CMG**  
**CE**

### Operating Temperature

- +5°C to +105°C (flexing)
- -10°C to +105°C (stationary)

### Conductor Color Coding

- Chart A (page 528)
- Jacket color: slate

### Materials

- Finely stranded tinned copper conductors
- Lubricated semi-rigid PVC insulation
- Shield: Combination foil and braid  
Aluminum/polyester foil shield, with 25% overlap and tinned copper drain wire  
Tinned copper braid with 85% coverage
- Oil-resistant PVC jacket

### Availability

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

### FIT® Tubing Recommendations

- FIT-FLEX: Highly flexible, cross-linked silicone rubber
- FIT-650: Chemical/temperature resistant cross-linked fluoroelastomer

## 24 AWG (0.20 mm<sup>2</sup>)

Stranding: 10/34 (10 x 0.16 mm)  
Insulation thickness: 0.010 (0.25 mm)

Part No.	Pairs	Nominal Diameter		Jacket Thickness	
		Inch	mm	Inch	mm
<b>86601CY</b>	1	0.204	5.18	0.040	1.02
<b>86602CY</b>	2	0.260	6.60	0.040	1.02
<b>86603CY</b>	3	0.272	6.91	0.040	1.02
<b>86604CY</b>	4	0.292	7.42	0.040	1.02
<b>86605CY</b>	5	0.314	7.98	0.040	1.02
<b>86606CY</b>	6	0.337	8.56	0.040	1.02
<b>86608CY</b>	8	0.385	9.78	0.040	1.02
<b>86610CY</b>	10	0.427	10.85	0.045	1.14
<b>86614CY</b>	14	0.463	11.76	0.053	1.35

## 22 AWG (0.38 mm<sup>2</sup>)

Stranding: 19/34 (19 x 0.16 mm)  
Insulation thickness: 0.010 (0.25 mm)

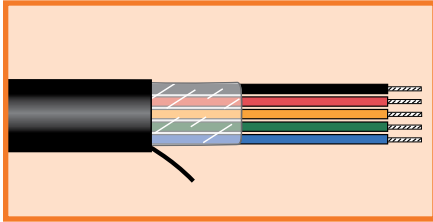
Part No.	Pairs	Nominal Diameter		Jacket Thickness	
		Inch	mm	Inch	mm
<b>86701CY</b>	1	0.220	5.59	0.040	1.02
<b>86702CY</b>	2	0.287	7.29	0.040	1.02
<b>86703CY</b>	3	0.301	7.65	0.040	1.02
<b>86704CY</b>	4	0.324	8.23	0.040	1.02
<b>86705CY</b>	5	0.350	8.89	0.040	1.02
<b>86706CY</b>	6	0.377	9.58	0.040	1.02
<b>86708CY</b>	8	0.443	11.25	0.045	1.14
<b>86710CY</b>	10	0.497	12.62	0.053	1.35
<b>86714CY</b>	14	0.527	13.39	0.053	1.35





# Xtra-Guard® Torsional Flex

Torsional Cable with 360° Twisting  
600 V Unshielded, Multiconductor



**UL AWM 20234**  
**CSA AWM I/II A/B FT1**  
**CE**

### Operating Temperature

- -10°C to +80°C (flexing)
- -30°C to +80°C (stationary)

### Conductor Color Coding

- Numbered black conductors
- 1 yellow/green ground conductor
- Jacket color: black

### Materials

- Stranded bare copper conductors
- Thermoplastic elastomer insulation
- Oil-resistant polyurethane jacket

### Availability

Bulk, cut to length

### FIT® Tubing Recommendations

- FIT-FLEX: Highly flexible, cross-linked silicone rubber
- FIT-650: Chemical/temperature resistant cross-linked fluoroelastomer

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

Stranding: 7/32 (7 x 0.20 mm)  
Insulation thickness: 0.016 (0.41 mm)

Part No.	Conductors	Nominal Diameter		Jacket Thickness	
		Inch	mm	Inch	mm
<b>87003</b>	3	0.227	5.77	0.050	1.27
<b>87004</b>	4	0.242	6.15	0.050	1.27
<b>87005</b>	5	0.259	6.58	0.050	1.27
<b>87007</b>	7	0.294	7.47	0.050	1.27

#### 22 AWG (0.38 mm<sup>2</sup>)

Stranding: 19/34 (19 x 0.16 mm)  
Insulation thickness: 0.016 (0.41 mm)

Part No.	Conductors	Nominal Diameter		Jacket Thickness	
		Inch	mm	Inch	mm
<b>87103</b>	3	0.244	6.20	0.050	1.27
<b>87104</b>	4	0.261	6.63	0.050	1.27
<b>87105</b>	5	0.281	7.14	0.050	1.27
<b>87107</b>	7	0.321	8.15	0.050	1.27

#### 20 AWG (0.62 mm<sup>2</sup>)

Stranding: 19/32 (19 x 0.20 mm)  
Insulation thickness: 0.016 (0.41 mm)

Part No.	Conductors	Nominal Diameter		Jacket Thickness	
		Inch	mm	Inch	mm
<b>87203</b>	3	0.262	6.65	0.050	1.27
<b>87204</b>	4	0.281	7.14	0.050	1.27
<b>87205</b>	5	0.302	7.67	0.050	1.27
<b>87207</b>	7	0.347	8.81	0.050	1.27

#### 18 AWG (0.96 mm<sup>2</sup>)

Stranding: 19/30 (19 x 0.25 mm)  
Insulation thickness: 0.016 (0.41 mm)

Part No.	Conductors	Nominal Diameter		Jacket Thickness	
		Inch	mm	Inch	mm
<b>87303</b>	3	0.283	7.19	0.050	1.27
<b>87304</b>	4	0.305	7.75	0.050	1.27
<b>87305</b>	5	0.329	8.36	0.050	1.27
<b>87307</b>	7	0.380	9.65	0.050	1.27

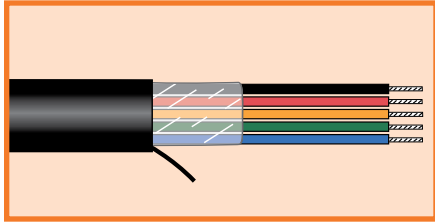




# Xtra-Guard® Torsional Flex



Torsional Cable with 360° Twisting  
600 V Unshielded, Multiconductor



**UL AWM 20234**  
**CSA AWM I/II A/B FT1**  
**CE**

### Operating Temperature

- -10°C to +80°C (flexing)
- -30°C to +80°C (stationary)

### Conductor Color Coding

- Numbered black conductors
- 1 yellow/green ground conductor
- Jacket color: black

### Materials

- Stranded bare copper conductors
- Thermoplastic elastomer insulation
- Oil-resistant polyurethane jacket

### Availability

Bulk, cut to length

### FIT® Tubing Recommendations

- FIT-FLEX: Highly flexible, cross-linked silicone rubber
- FIT-650: Chemical/temperature resistant cross-linked fluoroelastomer

#### 16 AWG (1.32 mm<sup>2</sup>)

Stranding: 19/0.0117 (19 x 0.30 mm)  
Insulation thickness: 0.016 (0.41 mm)

Part No.	Conductors	Nominal Diameter		Jacket Thickness	
		Inch	mm	Inch	mm
<b>87403</b>	3	0.302	7.67	0.050	1.27
<b>87404</b>	4	0.327	8.31	0.050	1.27
<b>87405</b>	5	0.354	8.99	0.050	1.27
<b>87407</b>	7	0.410	10.41	0.050	1.27

#### 14 AWG (2.07 mm<sup>2</sup>)

Stranding: 19/0.0147 (19 x 0.37 mm)  
Insulation thickness: 0.027 (0.69 mm)

Part No.	Conductors	Nominal Diameter		Jacket Thickness	
		Inch	mm	Inch	mm
<b>87503</b>	3	0.382	9.70	0.050	1.27
<b>87504</b>	4	0.417	10.59	0.050	1.27
<b>87505</b>	5	0.455	11.56	0.050	1.27
<b>87507</b>	7	0.535	13.59	0.050	1.27

#### 12 AWG (3.29 mm<sup>2</sup>)

Stranding: 19/0.0185 (19 x 0.47 mm)  
Insulation thickness: 0.027 (0.69 mm)

Part No.	Conductors	Nominal Diameter		Jacket Thickness	
		Inch	mm	Inch	mm
<b>87603</b>	3	0.444	11.28	0.060	1.52
<b>87604</b>	4	0.483	12.27	0.060	1.52
<b>87605</b>	5	0.526	13.36	0.060	1.52
<b>87607</b>	7	0.618	15.70	0.060	1.52

#### 10 AWG (5.22 mm<sup>2</sup>)

Stranding: 37/0.0167 (37 x 0.42 mm)  
Insulation thickness: 0.030 (0.76 mm)

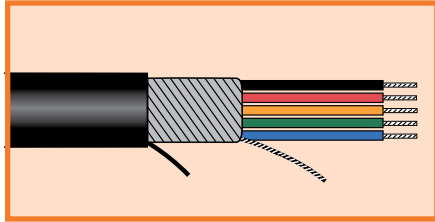
Part No.	Conductors	Nominal Diameter		Jacket Thickness	
		Inch	mm	Inch	mm
<b>87703</b>	3	0.508	12.90	0.060	1.52
<b>87704</b>	4	0.555	14.10	0.060	1.52
<b>87705</b>	5	0.627	15.93	0.070	1.78
<b>87707</b>	7	0.737	18.72	0.070	1.78





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600 V Shielded, Multiconductor



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**CE**

### Operating Temperature

- -10°C to +80°C (flexing)
- -30°C to +80°C (stationary)

### Conductor Color Coding

- Numbered black conductors
- 1 yellow/green ground conductor
- Jacket color: black

### Materials

- Stranded bare copper conductors
- Thermoplastic elastomer insulation
- Tinned copper spiral shield, 90% coverage
- Oil-resistant polyurethane jacket

### Availability

Bulk, cut to length

### FIT® Tubing Recommendations

- FIT-FLEX: Highly flexible, cross-linked silicone rubber
- FIT-650: Chemical/temperature resistant cross-linked fluoroelastomer

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

Stranding: 7/32 (7 x 0.20 mm)  
Insulation thickness: 0.016 (0.41 mm)

Part No.	Conductors	Nominal Diameter		Jacket Thickness	
		Inch	mm	Inch	mm
87003CY	3	0.246	6.25	0.050	1.27
87004CY	4	0.261	6.63	0.050	1.27
87005CY	5	0.278	7.06	0.050	1.27
87007CY	7	0.313	7.95	0.050	1.27

#### 22 AWG (0.38 mm<sup>2</sup>)

Stranding: 19/34 (19 x 0.16 mm)  
Insulation thickness: 0.016 (0.41 mm)

Part No.	Conductors	Nominal Diameter		Jacket Thickness	
		Inch	mm	Inch	mm
87103CY	3	0.263	6.68	0.050	1.27
87104CY	4	0.280	7.11	0.050	1.27
87105CY	5	0.300	7.62	0.050	1.27
87107CY	7	0.340	8.64	0.050	1.27

#### 20 AWG (0.62 mm<sup>2</sup>)

Stranding: 19/32 (19 x 0.20 mm)  
Insulation thickness: 0.016 (0.41 mm)

Part No.	Conductors	Nominal Diameter		Jacket Thickness	
		Inch	mm	Inch	mm
87203CY	3	0.281	7.14	0.050	1.27
87204CY	4	0.300	7.62	0.050	1.27
87205CY	5	0.321	8.15	0.050	1.27
87207CY	7	0.366	9.30	0.050	1.27

#### 18 AWG (0.96 mm<sup>2</sup>)

Stranding: 19/30 (19 x 0.25 mm)  
Insulation thickness: 0.016 (0.41 mm)

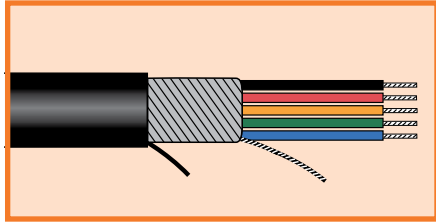
Part No.	Conductors	Nominal Diameter		Jacket Thickness	
		Inch	mm	Inch	mm
87303CY	3	0.302	7.67	0.050	1.27
87304CY	4	0.324	8.23	0.050	1.27
87305CY	5	0.348	8.84	0.050	1.27
87307CY	7	0.399	10.13	0.050	1.27



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- Jacket color: black

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- Stranded bare copper conductors
- Thermoplastic elastomer insulation
- Tinned copper spiral shield, 90% coverage
- Oil-resistant polyurethane jacket

### Availability

Bulk, cut to length

### FIT® Tubing Recommendations

- FIT-FLEX: Highly flexible, cross-linked silicone rubber
- FIT-650: Chemical/temperature resistant cross-linked fluoroelastomer

#### 16 AWG (1.32 mm<sup>2</sup>)

Stranding: 19/0.0117 (19 x 0.30 mm)  
Insulation thickness: 0.016 (0.41 mm)

Part No.	Conductors	Nominal Diameter		Jacket Thickness	
		Inch	mm	Inch	mm
<b>87403CY</b>	3	0.321	8.15	0.050	1.27
<b>87404CY</b>	4	0.346	8.79	0.050	1.27
<b>87405CY</b>	5	0.373	9.47	0.050	1.27
<b>87407CY</b>	7	0.429	10.90	0.050	1.27

#### 14 AWG (2.07 mm<sup>2</sup>)

Stranding: 19/0.0147 (19 x 0.37 mm)  
Insulation thickness: 0.027 (0.69 mm)

Part No.	Conductors	Nominal Diameter		Jacket Thickness	
		Inch	mm	Inch	mm
<b>87503CY</b>	3	0.401	10.19	0.050	1.27
<b>87504CY</b>	4	0.436	11.07	0.050	1.27
<b>87505CY</b>	5	0.474	12.04	0.050	1.27
<b>87507CY</b>	7	0.554	14.07	0.050	1.27

#### 12 AWG (3.29 mm<sup>2</sup>)

Stranding: 19/0.0185 (19 x 0.47 mm)  
Insulation thickness: 0.027 (0.69 mm)

Part No.	Conductors	Nominal Diameter		Jacket Thickness	
		Inch	mm	Inch	mm
<b>87603CY</b>	3	0.463	11.76	0.060	1.52
<b>87604CY</b>	4	0.502	12.75	0.060	1.52
<b>87605CY</b>	5	0.545	13.84	0.060	1.52
<b>87607CY</b>	7	0.637	16.18	0.060	1.52

#### 10 AWG (5.22 mm<sup>2</sup>)

Stranding: 37/0.0167 (37 x 0.42 mm)  
Insulation thickness: 0.030 (0.76 mm)

Part No.	Conductors	Nominal Diameter		Jacket Thickness	
		Inch	mm	Inch	mm
<b>87703CY</b>	3	0.527	13.39	0.060	1.52
<b>87704CY</b>	4	0.574	14.58	0.060	1.52
<b>87705CY</b>	5	0.646	16.41	0.070	1.78
<b>87707CY</b>	7	0.756	19.20	0.070	1.78

