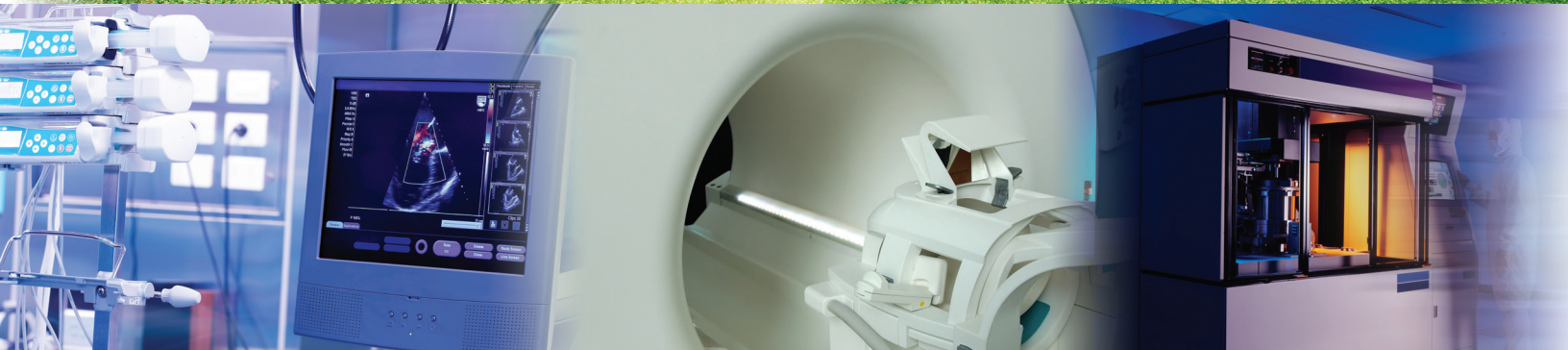


# EcoGen™ Wire and Cable



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# EcoGen™ Wire and Cable

## Better Performance In a Smaller Package



Alpha's EcoGen family of wire and cable combines better performance with minimum environmental impact. Each member of the EcoGen family derives its advantages from modified polyphenylene ether (mPPE) jacketing and insulation. EcoGen is:

- Zero Halogen
- Capable of handling temperatures extremes to -50°C
- Compared to PVC counterparts, EcoGen wire and cable is:
  - Up to 47% smaller
  - Up to 65% lighter
  - Up to 91% lower outgassing

### Environmentally Friendly

EcoGen products contain no halogens, phthalates, or heavy metals. The mPPE thermoplastic insulation and jacketing can be easily recycled. They meet RoHS and WEEE requirements for the elimination of hazardous substances and recyclability.

### Low Specific Gravity

The 1.03 specific gravity of mPPE is 25% to 40% lower than other insulation materials, such as PVC, polyethylene, and cross-linked polyethylene. Along with the reduced wall thickness, the low specific gravity yields significant weight savings of up to 65% with EcoCable.

### Better Dielectric Strength

The superior dielectric properties of mPPE make a reduced wall thickness possible, while maintaining the same electrical properties as a thicker PVC control cable.

### More Choice in EMI Protection

Alpha Wire offers EcoGen cables in three shielding options to handle any electrical environment.

- Unshielded
- Foil Shielded
- Supra-Shield® Foil + Braid Shield



Alpha Wire's next generation of eco-friendly, high-performance wire and cable, designed to provide better performance in a smaller package.

- EcoCable®
- EcoWire®
- EcoFlex® Cable
- EcoWire® Plus
- EcoCable® Mini
- EcoFlex® PUR

Learn more about the EcoGen family of products at [www.alphawire.com/EcoGen](http://www.alphawire.com/EcoGen)

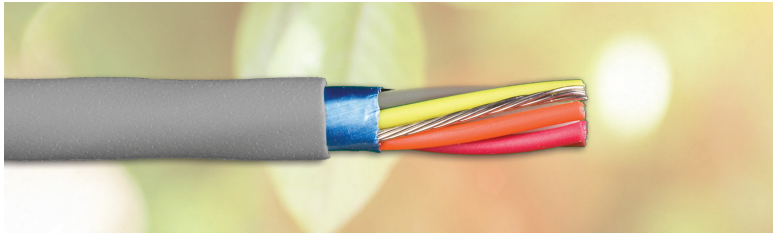
## EcoCable® Control Cable

Recyclable 600 V control cable that's up to 47% smaller and 65% lighter than PVC, with up to 87% lower outgassing



## EcoCable® Mini Cable

Recyclable 300 V cable that's up to 32% smaller and 44% lighter than PVC, and up to 92% lower outgassing



## EcoFlex® Cable

Fully recyclable compact cable that's up to 32% smaller and 55% lighter than PVC, with up to 91% lower outgassing—for moderate flex applications



## EcoFlex® PUR Cable

EcoFlex PUR cable provides abrasion, UV, and oil resistance with a tough, zero-halogen polyurethane jacket. It's up to 40% smaller and 44% lighter than other 600 V continuous flex cables



## EcoWire® Hook-Up Wire

Smaller, lighter, halogen-free replacement for PVC-insulated wire



## EcoWire® Plus Hook-Up Wire

Provides all of the environmental benefits of standard EcoWire, plus additional fluid resistance for demanding factory applications



# EcoCable®

## 600 V Control Cable



A fully recyclable 600 V control cable that's up to 47% smaller and 65% lighter than PVC. More than 150 standard EcoCable constructions are available to meet your performance needs.

- Up to 47% smaller and 65% lighter than PVC
- Exceptional EMI protection with Supra-Shield foil + braid
- 87% lower outgassing
- 28 - 14 AWG
- 100% recyclable mPPE insulation and jacketing
- Contains no halogens, phthalates, or heavy metals

**Conductors:** Stranded tinned copper

**Insulation:** mPPE

**Jacket:** mPPE, slate

**Shielding:** Unshielded, foil shield, Supra-Shield foil + braid

**Voltage:** 600 V

**Bend Radius:** 6x

**Temperature Range:** -50°C to + 105°C

### Configurations

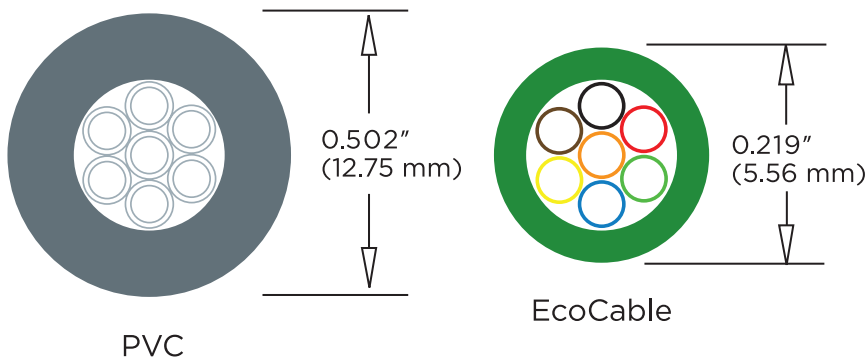
- Unshielded multiconductor
- Foil Shielded multiconductor
- Supra-Shield foil + braid shielded multiconductor
- Custom and composite configurations available

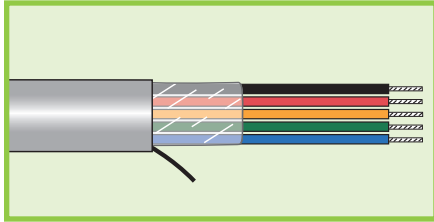


### Approvals

- UL AWM 21915 (600 V, 105°C)
- CE
- CSA AWM I/II A/B FT1
- IEC 60332-2 Flame Behavior
- RoHS
- REACH
- WEEE
- Suitable for use in NFPA 79 applications
- ISO 10993-5

### 22 AWG (0.35 mm<sup>2</sup>) 7-Conductor Unshielded Cable





**UL AWM 21915**  
**CSA AWM I/II A/B FT2**

**Operating Temperature**

-50°C to 105°C

**Conductor Color Coding**

- Chart E

**Materials**

- Stranded tin-plated copper conductors
- mPPE insulation
- mPPE jacket, slate

**Properties**

- Zero halogen
- Specific gravity: 1.03
- 100% recyclable
- Low outgassing
- Suitable for use in NFPA 79 applications

**Availability**

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

**FIT® Tubing Recommendations**

- FIT-221L: Low smoke zero halogen
- FIT Spiral Wrap: Zero-halogen wrap simplifies wire harnessing, cabling, and bundling

**28 AWG (0.089 mm<sup>2</sup>)**

Stranding: 7/36 (0.127 mm)  
Insulation thickness: 0.010 (0.25 mm)  
Jacket thickness: 0.032 (0.81 mm)

Part Number	Conductors	Nominal Diameter	
		Inch	mm
77052	2	0.138	3.51
77053	3	0.144	3.66
77054	4	0.153	3.89
77055	6	0.174	4.42

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

Stranding: 7/34 (0.16 mm)  
Insulation thickness: 0.010 (0.25 mm)  
Jacket thickness: 0.032 (0.81 mm)

Part Number	Conductors	Nominal Diameter	
		Inch	mm
77047	2	0.146	3.71
77048	3	0.152	3.86
77049	4	0.162	4.11
77050	6	0.186	4.72
77051	8	0.198	5.03

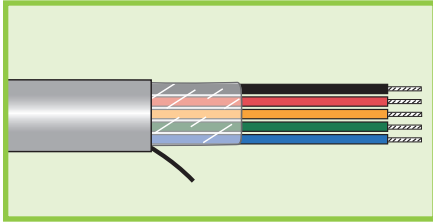
**24 AWG (0.28 mm<sup>2</sup>)**

Stranding: 7/32 (7 x 0.20 mm)  
Insulation thickness: 0.010 (0.25 mm)  
Jacket thickness: 0.032 (0.81 mm)

Part Number	Conductors	Nominal Diameter	
		Inch	mm
77001	2	0.156	3.96
77002	4	0.175	4.44
77003	5	0.188	4.78
77004	7	0.201	5.11
77005	9	0.229	5.82
77006	19	0.288	7.32

# EcoCable®

## 600 V Unshielded, Multiconductor



**UL AWM 21915**  
**CSA AWM I/II A/B FT2**

### Operating Temperature

-50°C to 105°C

### Conductor Color Coding

- Chart E

### Materials

- Stranded tin-plated copper conductors
- mPPE insulation
- mPPE jacket, slate

### Properties

- Zero halogen
- Specific gravity: 1.03
- 100% recyclable
- Low outgassing
- Suitable for use in NFPA 79 applications

### Availability

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

### FIT® Tubing Recommendations

- FIT-221L: Low smoke zero halogen
- FIT Spiral Wrap: Zero-halogen wrap simplifies wire harnessing, cabling, and bundling

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

Stranding: 7/30 (7 x 0.25 mm)  
Insulation thickness: 0.010 (0.25 mm)  
Jacket thickness: 0.032 (0.81 mm)

Part Number	Conductors	Nominal Diameter	
		Inch	mm
77007	2	0.168	4.27
77008	4	0.189	4.80
77009	5	0.204	5.18
77010	7	0.219	5.56
77011	9	0.251	6.38
77012	19	0.318	8.08

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

Stranding: 7/28 (7 x 0.32 mm)  
Insulation thickness: 0.010 (0.25 mm)  
Jacket thickness: 0.032 (0.81 mm)

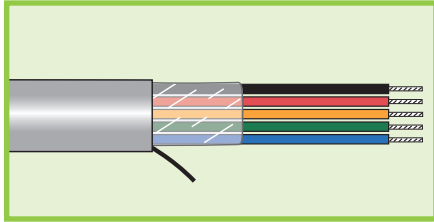
Part Number	Conductors	Nominal Diameter	
		Inch	mm
77056	2	0.184	4.67
77013	3	0.193	4.90
77014	4	0.209	5.31
77015	9	0.280	7.11
77016	12	0.309	7.85
77017	15	0.336	8.53
77018	19	0.358	9.09
77019	25	0.416	10.57

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

Stranding: 16/30 (16 x 0.25 mm)  
Insulation thickness: 0.010 (0.25 mm)  
Jacket thickness: 0.032 (0.81 mm)

Part Number	Conductors	Nominal Diameter	
		Inch	mm
77020	2	0.206	5.23
77021	3	0.217	5.51
77022	4	0.235	5.97
77023	5	0.255	6.48
77024	7	0.276	7.01
77025	9	0.320	8.13
77026	12	0.355	9.02
77027	15	0.387	9.83
77028	19	0.414	10.52
77029	25	0.482	12.24





**UL AWM 21915**  
**CSA AWM I/II A/B FT2**

**Operating Temperature**

-50°C to 105°C

**Conductor Color Coding**

- Chart E

**Materials**

- Stranded tin-plated copper conductors
- mPPE insulation
- mPPE jacket, slate

**Properties**

- Zero halogen
- Specific gravity: 1.03
- 100% recyclable
- Low outgassing
- Suitable for use in NFPA 79 applications

**Availability**

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

**FIT® Tubing Recommendations**

- FIT-221L: Low smoke zero halogen
- FIT Spiral Wrap: Zero-halogen wrap simplifies wire harnessing, cabling, and bundling

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

Stranding: 19/0.0117 (19 x 0.297 mm)  
Insulation thickness: 0.010 (0.25 mm)  
Jacket thickness: 0.032 (0.81 mm)

Part Number	Conductors	Nominal Diameter	
		Inch	mm
<b>77030</b>	4	0.269	6.83
<b>77031</b>	5	0.293	7.44
<b>77032</b>	7	0.319	8.10
<b>77033</b>	9	0.371	9.42
<b>77034</b>	12	0.413	10.49
<b>77035</b>	15	0.451	11.46
<b>77036</b>	19	0.484	12.29
<b>77037*</b>	25	0.608	15.44

\*0.053 (1.35 mm) jacket thickness

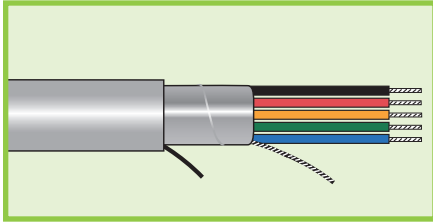
**14 AWG (2.08 mm<sup>2</sup>)**

Stranding: 41/30 (41 x 0.25 mm)  
Insulation thickness: 0.011 (0.28 mm)  
Jacket thickness: 0.032 (0.81 mm)

Part Number	Conductors	Nominal Diameter	
		Inch	mm
<b>77038</b>	2	0.260	6.60
<b>77039</b>	3	0.275	6.98
<b>77040</b>	4	0.301	7.65
<b>77041</b>	5	0.329	8.36
<b>77042</b>	7	0.358	9.09
<b>77043</b>	9	0.419	10.64
<b>77044</b>	12	0.467	11.86
<b>77045</b>	15	0.511	12.98
<b>77046*</b>	25	0.686	17.42

\*0.053 (1.35 mm) jacket thickness





**UL AWM 21915**  
**CSA AWM I/II A/B FT2**

### Operating Temperature

-50°C to 105°C

### Conductor Color Coding

- Chart E

### Materials

- Stranded tin-plated copper conductors
- mPPE insulation
- Aluminum/polyester tape, 25% overlap, foil facing inward
- mPPE jacket, slate

### Properties

- Zero halogen
- Specific gravity: 1.03
- 100% recyclable
- Low outgassing
- Suitable for use in NFPA 79 applications

### Availability

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

### FIT® Tubing Recommendations

- FIT-221L: Low smoke zero halogen
- FIT Spiral Wrap: Zero-halogen wrap simplifies wire harnessing, cabling, and bundling

### 28 AWG (0.089 mm<sup>2</sup>)

Stranding: 7/36 (0.13 mm)  
Insulation thickness: 0.010 (0.25 mm)  
Jacket thickness: 0.032 (0.81 mm)

Part Number	Conductors	Nominal Diameter	
		Inch	mm
77152	2	0.142	3.61
77153	3	0.148	3.76
77154	4	0.157	3.99
77155	6	0.178	4.52

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

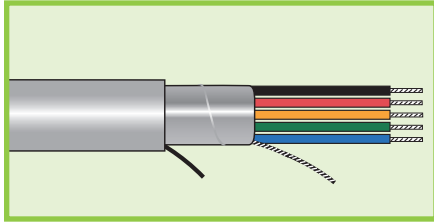
Stranding: 7/34 (0.16 mm)  
Insulation thickness: 0.010 (0.25 mm)  
Jacket thickness: 0.032 (0.81 mm)

Part Number	Conductors	Nominal Diameter	
		Inch	mm
77147	2	0.150	3.81
77148	3	0.156	3.96
77149	4	0.166	4.22
77150	6	0.190	4.83
77151	8	0.202	5.13

### 24 AWG (0.28 mm<sup>2</sup>)

Stranding: 7/32 (7 x 0.20 mm)  
Insulation thickness: 0.010 (0.25 mm)  
Jacket thickness: 0.032 (0.81 mm)

Part Number	Conductors	Nominal Diameter	
		Inch	mm
77102	2	0.160	4.06
77103	3	0.167	4.24
77104	4	0.179	4.55
77105	5	0.192	4.88
77106	7	0.205	5.21
77107	9	0.233	5.92
77101	12	0.255	6.48



**UL AWM 21915**  
**CSA AWM I/II A/B FT2**

**Operating Temperature**

-50°C to 105°C

**Conductor Color Coding**

- Chart E

**Materials**

- Stranded tin-plated copper conductors
- mPPE insulation
- mPPE jacket, slate

**Properties**

- Zero halogen
- Specific gravity: 1.03
- 100% recyclable
- Low outgassing
- Suitable for use in NFPA 79 applications

**Availability**

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

**FIT® Tubing Recommendations**

- FIT-221L: Low smoke zero halogen
- FIT Spiral Wrap: Zero-halogen wrap simplifies wire harnessing, cabling, and bundling

**22 AWG (0.35 mm²)**

Stranding: 7/30 (7 x 0.25 mm)  
Insulation thickness: 0.010 (0.25 mm)  
Jacket thickness: 0.032 (0.81 mm)

Part Number	Conductors	Nominal Diameter	
		Inch	mm
77109	2	0.172	4.37
77110	3	0.180	4.57
77111	4	0.193	4.90
77112	5	0.208	5.28
77113	7	0.223	5.66
77114	9	0.255	6.48
77108	12	0.280	7.11

**20 AWG (0.56 mm²)**

Stranding: 7/28 (7 x 0.32 mm)  
Insulation thickness: 0.010 (0.25 mm)  
Jacket thickness: 0.032 (0.81 mm)

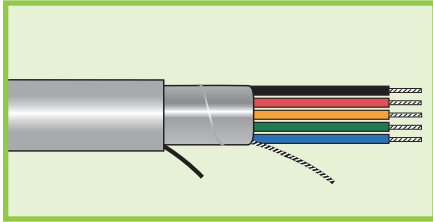
Part Number	Conductors	Nominal Diameter	
		Inch	mm
77116	3	0.197	5.00
77117	4	0.213	5.41
77118	5	0.230	5.84
77119	7	0.247	6.27
77120	9	0.284	7.21
77115	12	0.313	7.95

**18 AWG (0.81 mm²)**

Stranding: 16/30 (16 x 0.25 mm)  
Insulation thickness: 0.010 (0.25 mm)  
Jacket thickness: 0.032 (0.81 mm)

Part Number	Conductors	Nominal Diameter	
		Inch	mm
77124	2	0.210	5.33
77126	3	0.221	5.61
77127	4	0.239	6.07
77128	5	0.259	6.58
77129	7	0.281	7.14
77130	9	0.324	8.23
77121	12	0.359	9.12
77122	15	0.391	9.93
77123	19	0.418	10.62
77125	25	0.486	12.34





**UL AWM 21915**  
**CSA AWM I/II A/B FT2**

### Operating Temperature

-50°C to 105°C

### Conductor Color Coding

- Chart E

### Materials

- Stranded tin-plated copper conductors
- mPPE insulation
- Aluminum/polyester tape, 25% overlap, foil facing inward
- mPPE jacket, slate

### Properties

- Zero halogen
- Specific gravity: 1.03
- 100% recyclable
- Low outgassing
- Suitable for use in NFPA 79 applications

### Availability

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

### FIT® Tubing Recommendations

- FIT-221L: Low smoke zero halogen
- FIT Spiral Wrap: Zero-halogen wrap simplifies wire harnessing, cabling, and bundling

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

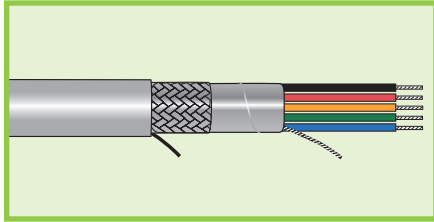
Stranding: 19/0.0117 (19 x 0.297 mm)  
Insulation thickness: 0.010 (0.25 mm)  
Jacket thickness: 0.032 (0.81 mm)

Part Number	Conductors	Nominal Diameter	
		Inch	mm
77133	2	0.238	6.05
77134	3	0.251	6.38
77135	4	0.273	6.93
77136	5	0.297	7.54
77137	7	0.323	8.20
77138	9	0.375	9.53
77131	12	0.417	10.59
77132	15	0.455	11.56

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

Stranding: 41/30 (41 x 0.25 mm)  
Insulation thickness: 0.011 (0.28 mm)  
Jacket thickness: 0.032 (0.81 mm)

Part Number	Conductors	Nominal Diameter	
		Inch	mm
77141	2	0.264	6.71
77142	3	0.279	7.09
77143	4	0.305	7.75
77144	5	0.333	8.46
77145	7	0.362	9.19
77146	9	0.423	10.74
77139	12	0.471	11.96
77140	15	0.515	13.08



**UL AWM 21915  
CSA AWM I/II A/B FT2**

**Operating Temperature**

-50°C to 105°C

**Conductor Color Coding**

- Chart E

**Materials**

- Stranded tin-plated copper conductors
- mPPE insulation
- Supra-Shield foil + braid shield: Aluminum/polyester/aluminum foil with 25% overlap min. Tinned copper drain wire Tinned copper braid, 70% coverage min.
- mPPE jacket, slate

**Properties**

- Zero halogen
- Specific gravity: 1.03
- 100% recyclable
- Low outgassing
- Suitable for use in NFPA 79 applications

**Availability**

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

**FIT® Tubing Recommendations**

- FIT-221L: Low smoke zero halogen
- FIT Spiral Wrap: Zero-halogen wrap simplifies wire harnessing, cabling, and bundling



**28 AWG (0.089 mm<sup>2</sup>)**

Stranding: 7/36 (0.127 mm)  
Insulation thickness: 0.010 (0.25 mm)  
Jacket thickness: 0.032 (0.81 mm)

Part Number	Conductors	Nominal Diameter	
		Inch	mm
77252	2	0.166	4.22
77253	3	0.172	4.37
77254	4	0.181	4.60
77255	6	0.202	5.13

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

Stranding: 7/34 (0.16 mm)  
Insulation thickness: 0.010 (0.25 mm)  
Jacket thickness: 0.032 (0.81 mm)

Part Number	Conductors	Nominal Diameter	
		Inch	mm
77247	2	0.174	4.42
77248	3	0.180	4.57
77249	4	0.190	4.83
77250	6	0.214	5.44
77251	8	0.226	5.74

**24 AWG (0.28 mm<sup>2</sup>)**

Stranding: 7/32 (7 x 0.20 mm)  
Insulation thickness: 0.010 (0.25 mm)  
Jacket thickness: 0.032 (0.81 mm)

Part Number	Conductors	Nominal Diameter	
		Inch	mm
77201	4	0.203	5.16
77202	7	0.229	5.82
77203	12	0.279	7.09

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

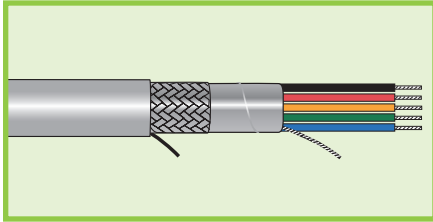
Stranding: 7/30 (7 x 0.25 mm)  
Insulation thickness: 0.010 (0.25 mm)  
Jacket thickness: 0.032 (0.81 mm)

Part Number	Conductors	Nominal Diameter	
		Inch	mm
77204	4	0.217	5.51
77205	7	0.247	6.27
77206	12	0.304	7.72

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

Stranding: 7/28 (7 x 0.32 mm)  
Insulation thickness: 0.010 (0.25 mm)  
Jacket thickness: 0.032 (0.81 mm)

Part Number	Conductors	Nominal Diameter	
		Inch	mm
77207	4	0.237	6.02
77208	5	0.254	6.45
77209	7	0.271	6.88
77210	9	0.308	7.82
77211	12	0.337	8.56
77212	19	0.386	9.80



**UL AWM 21915**  
**CSA AWM I/II A/B FT2**

### Operating Temperature

-50°C to 105°C

### Conductor Color Coding

- Chart E

### Materials

- Stranded tin-plated copper conductors
- mPPE insulation
- Supra-Shield foil + braid shield: Aluminum/polyester/aluminum foil with 25% overlap min. Tinned copper drain wire Tinned copper braid, 70% coverage min.
- mPPE jacket, slate

### Properties

- Zero halogen
- Specific gravity: 1.03
- 100% recyclable
- Low outgassing
- Suitable for use in NFPA 79 applications

### Availability

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

### FIT® Tubing Recommendations

- FIT-221L: Low smoke zero halogen
- FIT Spiral Wrap: Zero-halogen wrap simplifies wire harnessing, cabling, and bundling

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

Stranding: 16/30 (16 x 0.25 mm)  
Insulation thickness: 0.010 (0.25 mm)  
Jacket thickness: 0.032 (0.81 mm)

Part Number	Conductors	Nominal Diameter	
		Inch	mm
77213	2	0.234	5.94
77214	3	0.245	6.22
77215	4	0.263	6.68
77216	5	0.283	7.19
77217	7	0.305	7.75
77218	9	0.348	8.84
77219	12	0.383	9.73
77220	15	0.414	10.52
77221	19	0.442	11.23

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

Stranding: 19/0.0117 (19 x 0.297 mm)  
Insulation thickness: 0.010 (0.25 mm)  
Jacket thickness: 0.032 (0.81 mm)

Part Number	Conductors	Nominal Diameter	
		Inch	mm
77222	2	0.262	6.65
77223	3	0.275	6.99
77224	4	0.297	7.54
77225	5	0.321	8.15
77226	7	0.347	8.81
77227	9	0.399	10.13
77228	12	0.441	11.20
77229	15	0.479	12.17
77230	19	0.512	13.00

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

Stranding: 41/30 (41 x 0.25 mm)  
Insulation thickness: 0.011 (0.28 mm)  
Jacket thickness: 0.032 (0.81 mm)

Part Number	Conductors	Nominal Diameter	
		Inch	mm
77231	2	0.288	7.32
77232	3	0.303	7.70
77233	4	0.329	8.36
77234	7	0.386	9.80
77235	9	0.447	11.35
77236	12	0.495	12.57
77237	15	0.539	13.69
77238*	25	0.720	17.22

\*0.053 (1.35 mm) jacket thickness

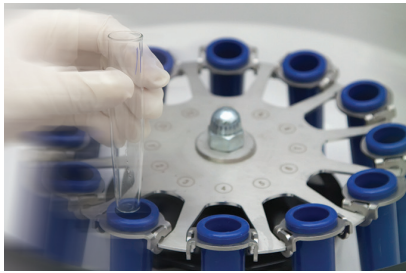
# EcoCable® Mini

## 300 V Communication Cable



**Small Just Got Mini.** EcoCable Mini recyclable cable was developed in response to our customers' need for a smaller, lighter 300 V cable.

- Up to 32% smaller than PVC
- Up to 44% lighter than PVC
- 92% lower outgassing than PVC
- 100% recyclable mPPE insulation and jacketing
- Contains no halogens, phthalates, or heavy metals



**Conductors:** Stranded tinned copper

**Insulation:** mPPE

**Jacket:** mPPE, slate

**Shielding:** Foil or foil + braid

**Voltage:** 300 V

**Temperature Range:** -40°C to + 80°C

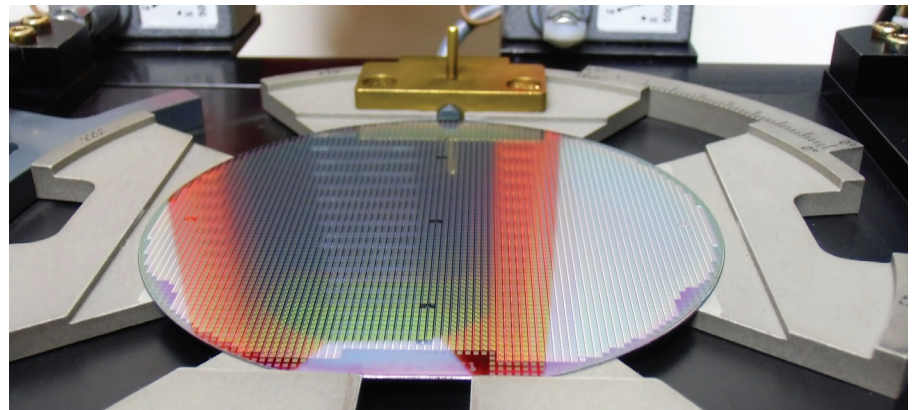
### Configurations

- Multiconductor or multipair
- Unshielded
- Overall foil shielded
- Individually shielded pairs + overall foil shield
- Supra-Shield® foil + braid
- Custom and composite configurations available



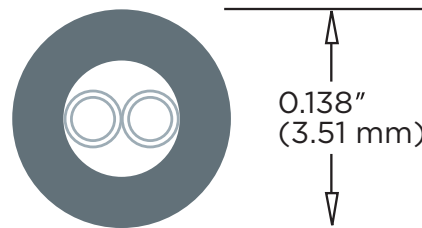
### Approvals

- UL AWM 21460
- UL VW-1
- CSA I A/B FT1
- CE
- RoHS
- REACH
- WEEE
- Suitable for use in NFPA 79 applications
- ISO 10993-5

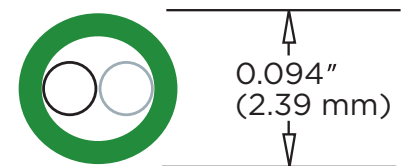


Order free samples at [www.alphawire.com/ecogen](http://www.alphawire.com/ecogen) or call 1-800-52-ALPHA

### 28 AWG (0.0925 mm<sup>2</sup>) 2-Conductor Unshielded Cable



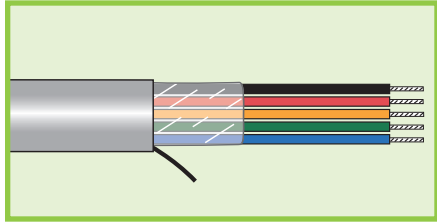
PVC



EcoCable Mini

# EcoCable® Mini

## 300 V Unshielded, Multiconductor



**UL AWM 21460**  
**UL VW-1**  
**CSA I A/B FT1**

### Temperature Range

-40°C to + 80°C

### Conductor Color Coding

- Chart E (Chart D for 20 AWG)

### Materials

- Tinned copper conductors
- mPPE insulation
- mPPE jacket, slate

### Properties

- Zero halogen
- Specific gravity: 1.03
- 100% recyclable
- Low outgassing
- Suitable for use in NFPA 79 applications

### Availability

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

### FIT® Tubing Recommendations

- FIT-221L: Low smoke zero halogen
- FIT Spiral Wrap: Zero-halogen wrap simplifies wire harnessing, cabling, and bundling

#### 28 AWG (0.0925 mm<sup>2</sup>)

Stranding: 19/40 (19 x 0.079 mm)  
 Insulation thickness: 0.007 (0.18 mm)  
 Jacket thickness: 0.015 (0.38 mm)

Part Number	Conductors	Nominal Diameter	
		Inch	mm
78002	2	0.094	2.39
78003	3	0.099	2.51
78004	4	0.107	2.72
78006	6	0.124	3.15
78008	8	0.134	3.40

#### 26 AWG (0.154 mm<sup>2</sup>)

Stranding: 19/38 (19 x 0.102 mm)  
 Insulation thickness: 0.007 (0.18 mm)  
 Jacket thickness: 0.015 (0.38 mm)

Part Number	Conductors	Nominal Diameter	
		Inch	mm
78012	2	0.102	2.59
78013	3	0.107	2.72
78014	4	0.116	2.95
78016	6	0.136	3.45
78018	8	0.147	3.73
78020	10	0.170	4.32
78021	15	0.190	4.83

#### 24 AWG (0.241 mm<sup>2</sup>)

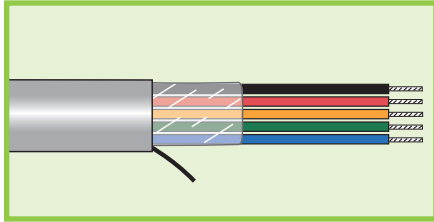
Stranding: 19/36 (19 x 0.127 mm)  
 Insulation thickness: 0.007 (0.18 mm)  
 Jacket thickness: 0.015 (0.38 mm)

Part Number	Conductors	Nominal Diameter	
		Inch	mm
78022	2	0.112	2.84
78023	3	0.118	3.00
78024	4	0.128	3.25
78026	6	0.152	3.86
78028	8	0.164	4.17
78030	10	0.190	4.83
78031	15	0.213	5.41
78403	20	0.238	6.05
78433	25	0.268	6.81



# EcoCable® Mini

## 300 V Unshielded, Multiconductor



**UL AWM 21460**  
**UL VW-1**  
**CSA I A/B FT1**

### Temperature Range

-40°C to + 80°C

### Conductor Color Coding

- Chart E (Chart D for 20 AWG)

### Materials

- Tinned copper conductors
- mPPE insulation
- mPPE jacket, slate

### Properties

- Zero halogen
- Specific gravity: 1.03
- 100% recyclable
- Low outgassing
- Suitable for use in NFPA 79 applications

### Availability

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

### FIT® Tubing Recommendations

- FIT-221L: Low smoke zero halogen
- FIT Spiral Wrap: Zero-halogen wrap simplifies wire harnessing, cabling, and bundling

### 22 AWG (0.382 mm<sup>2</sup>)

Stranding: 19/34 (19 x 0.16 mm)  
 Insulation thickness: 0.007 (0.18 mm)  
 Jacket thickness: 0.015 (0.38 mm)

Part Number	Conductors	Nominal Diameter	
		Inch	mm
78032	2	0.126	3.20
78033	3	0.133	3.38
78034	4	0.145	3.68
78036	6	0.173	4.39
78038	8	0.187	4.75
78040	10	0.218	5.54
78041	15	0.245	6.22
78404	20	0.275	6.98
78434	25	0.310	7.87

### 20 AWG (0.616 mm<sup>2</sup>)

Stranding: 19/32 (19 x 0.203 mm)  
 Insulation thickness: 0.007 (0.18 mm)  
 Jacket thickness: 0.015 (0.38 mm)

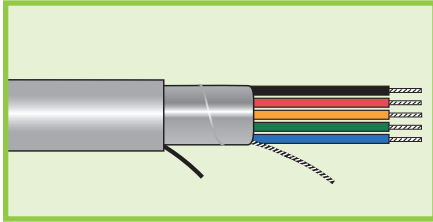
Part Number	Conductors	Nominal Diameter	
		Inch	mm
78042	2	0.142	3.61
78043	3	0.150	3.81
78044	4	0.165	4.19
78046	6	0.197	5.00
78048	8	0.214	5.44
78050	10	0.250	6.35
78055	15	0.282	7.16
78405	20	0.317	8.05
78435	25	0.358	9.09





# EcoCable® Mini

## 300 V Foil Shield, Multiconductor



**UL AWM 21460**  
**UL VW-1**  
**CSA I A/B FT1**

### Temperature Range

-40°C to + 80°C

### Conductor Color Coding

- Chart E (Chart D for 20 AWG)

### Materials

- Tinned copper conductors
- mPPE insulation
- Aluminum/polyester tape, 25% overlap, foil facing inward
- mPPE jacket, slate

### Properties

- Zero halogen
- Specific gravity: 1.03
- 100% recyclable
- Low outgassing
- Suitable for use in NFPA 79 applications

### Availability

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

### FIT® Tubing Recommendations

- FIT-221L: Low smoke zero halogen
- FIT Spiral Wrap: Zero-halogen wrap simplifies wire harnessing, cabling, and bundling

#### 28 AWG (0.0925 mm<sup>2</sup>)

Stranding: 19/40 (19 x 0.079 mm)  
 Insulation thickness: 0.007 (0.18 mm)  
 Jacket thickness: 0.015 (0.38 mm)

Part Number	Conductors	Nominal Diameter	
		Inch	mm
78102	2	0.098	2.49
78103	3	0.103	2.62
78104	4	0.111	2.82
78106	6	0.128	3.25
78108	8	0.138	3.51

#### 26 AWG (0.154 mm<sup>2</sup>)

Stranding: 19/38 (19 x 0.102 mm)  
 Insulation thickness: 0.007 (0.18 mm)  
 Jacket thickness: 0.015 (0.38 mm)

Part Number	Conductors	Nominal Diameter	
		Inch	mm
78112	2	0.106	2.69
78113	3	0.111	2.82
78114	4	0.12	3.05
78116	6	0.14	3.56
78118	8	0.151	3.84
78120	10	0.174	4.42
78121	15	0.194	4.93

#### 24 AWG (0.241 mm<sup>2</sup>)

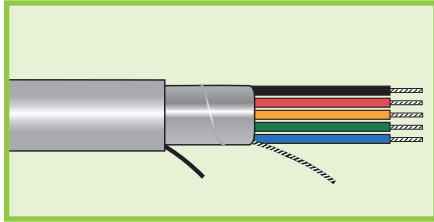
Stranding: 19/36 (19 x 0.127 mm)  
 Insulation thickness: 0.007 (0.18 mm)  
 Jacket thickness: 0.015 (0.38 mm)

Part Number	Conductors	Nominal Diameter	
		Inch	mm
78122	2	0.116	2.95
78123	3	0.122	3.10
78124	4	0.132	3.35
78126	6	0.156	3.96
78128	8	0.168	4.27
78130	10	0.194	4.93
78131	15	0.217	5.51
78413	20	0.242	6.15
78443	25	0.272	6.91



# EcoCable® Mini

## 300 V Foil Shield, Multiconductor



**UL AWM 21460**  
**UL VW-1**  
**CSA I A/B FT1**

### Temperature Range

-40°C to + 80°C

### Conductor Color Coding

- Chart E (Chart D for 20 AWG)

### Materials

- Tinned copper conductors
- mPPE insulation
- Aluminum/polyester tape, 25% overlap, foil facing inward
- mPPE jacket, slate

### Properties

- Zero halogen
- Specific gravity: 1.03
- 100% recyclable
- Low outgassing
- Suitable for use in NFPA 79 applications

### Availability

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

### FIT® Tubing Recommendations

- FIT-221L: Low smoke zero halogen
- FIT Spiral Wrap: Zero-halogen wrap simplifies wire harnessing, cabling, and bundling

### 22 AWG (0.382 mm<sup>2</sup>)

Stranding: 19/34 (19 x 0.16 mm)  
 Insulation thickness: 0.007 (0.18 mm)  
 Jacket thickness: 0.015 (0.38 mm)

Part Number	Conductors	Nominal Diameter	
		Inch	mm
78132	2	0.130	3.30
78133	3	0.137	3.48
78134	4	0.149	3.78
78136	6	0.177	4.50
78138	8	0.191	4.85
78140	10	0.222	5.64
78141	15	0.249	6.32
78414	20	0.279	7.09
78444	25	0.314	7.98

### 20 AWG (0.616 mm<sup>2</sup>)

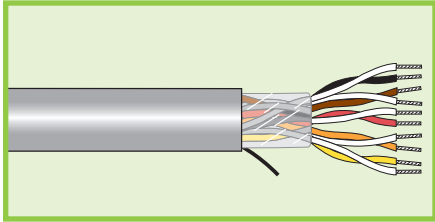
Stranding: 19/32 (19 x 0.203 mm)  
 Insulation thickness: 0.007 (0.18 mm)  
 Jacket thickness: 0.015 (0.38 mm)

Part Number	Conductors	Nominal Diameter	
		Inch	mm
78142	2	0.146	3.71
78143	3	0.154	3.91
78144	4	0.169	4.29
78146	6	0.201	5.11
78148	8	0.218	5.54
78150	10	0.254	6.45
78155	15	0.286	7.26
78415	20	0.321	8.15
78445	25	0.362	9.19



# EcoCable® Mini

## 300 V Unshielded, Multipair



**UL AWM 21460**  
**UL VW-1**  
**CSA I A/B FT1**

### Temperature Range

-40°C to + 80°C

### Conductor Color Coding

- Chart B (Chart A for 20 AWG)

### Materials

- Tinned copper conductors
- mPPE insulation
- mPPE jacket, slate

### Properties

- Zero halogen
- Specific gravity: 1.03
- 100% recyclable
- Low outgassing
- Suitable for use in NFPA 79 applications

### Availability

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

### FIT® Tubing Recommendations

- FIT-221L: Low smoke zero halogen
- FIT Spiral Wrap: Zero-halogen wrap simplifies wire harnessing, cabling, and bundling

#### 28 AWG (0.0925 mm<sup>2</sup>)

Stranding: 19/40 (19 x 0.079 mm)  
 Insulation thickness: 0.007 (0.18 mm)  
 Jacket thickness: 0.015 (0.38 mm)

Part Number	Pairs	Nominal Diameter	
		Inch	mm
78052	2	0.132	3.35
78053	3	0.140	3.56
78054	4	0.153	3.89
78005	5	0.167	4.24
78056	6	0.182	4.62
78058	8	0.198	5.03
78009	9	0.213	5.41

#### 26 AWG (0.154 mm<sup>2</sup>)

Stranding: 19/38 (19 x 0.102 mm)  
 Insulation thickness: 0.007 (0.18 mm)  
 Jacket thickness: 0.015 (0.38 mm)

Part Number	Pairs	Nominal Diameter	
		Inch	mm
78062	2	0.146	3.71
78063	3	0.154	3.91
78064	4	0.169	4.29
78015	5	0.185	4.70
78066	6	0.202	5.13
78068	8	0.219	5.56
78019	9	0.237	6.02

#### 24 AWG (0.241 mm<sup>2</sup>)

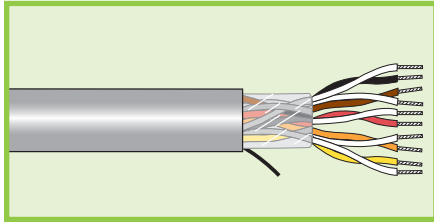
Stranding: 19/36 (19 x 0.127 mm)  
 Insulation thickness: 0.007 (0.18 mm)  
 Jacket thickness: 0.015 (0.38 mm)

Part Number	Pairs	Nominal Diameter	
		Inch	mm
78072	2	0.162	4.11
78073	3	0.172	4.37
78074	4	0.189	4.80
78025	5	0.207	5.26
78076	6	0.227	5.77
78078	8	0.247	6.27
78029	9	0.267	6.78
78408	20	0.369	9.37
78438	25	0.418	10.62



# EcoCable® Mini

## 300 V Unshielded, Multipair



**UL AWM 21460**  
**UL VW-1**  
**CSA I A/B FT1**

### Temperature Range

-40°C to + 80°C

### Conductor Color Coding

- Chart B (Chart A for 20 AWG)

### Materials

- Tinned copper conductors
- mPPE insulation
- mPPE jacket, slate

### Properties

- Zero halogen
- Specific gravity: 1.03
- 100% recyclable
- Low outgassing
- Suitable for use in NFPA 79 applications

### Availability

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

### FIT® Tubing Recommendations

- FIT-221L: Low smoke zero halogen
- FIT Spiral Wrap: Zero-halogen wrap simplifies wire harnessing, cabling, and bundling

#### 22 AWG (0.382 mm<sup>2</sup>)

Stranding: 19/34 (19 x 0.16 mm)  
 Insulation thickness: 0.007 (0.18 mm)  
 Jacket thickness: 0.015 (0.38 mm)

Part Number	Pairs	Nominal Diameter	
		Inch	mm
78082	2	0.185	4.70
78083	3	0.197	5.00
78084	4	0.217	5.51
78035	5	0.239	6.07
78086	6	0.261	6.63
78088	8	0.285	7.24
78039	9	0.309	7.85
78409	20	0.429	10.90
78439	25	0.487	12.37

#### 20 AWG (0.616 mm<sup>2</sup>)

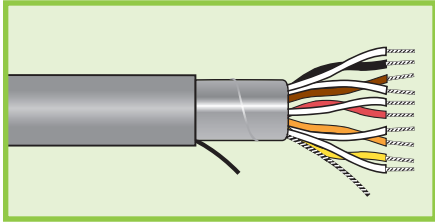
Stranding: 19/32 (19 x 0.203 mm)  
 Insulation thickness: 0.007 (0.18 mm)  
 Jacket thickness: 0.015 (0.38 mm)

Part Number	Pairs	Nominal Diameter	
		Inch	mm
78092	2	0.211	5.36
78093	3	0.225	5.72
78094	4	0.248	6.30
78045	5	0.274	6.96
78096	6	0.301	7.65
78098	8	0.328	8.33
78049	9	0.356	9.04
78410	20	0.498	12.65
78440	25	0.565	14.35



# EcoCable® Mini

## 300 V Foil Shielded, Multipair



**UL AWM 21460**  
**UL VW-1**  
**CSA I A/B FT1**

### Temperature Range

-40°C to + 80°C

### Conductor Color Coding

- Chart B (Chart A for 20 AWG)

### Materials

- Tinned copper conductors
- mPPE insulation
- mPPE jacket, slate
- Aluminum/polyester tape shield, 25% overlap, foil facing inward, and 26 AWG stranded drain wire

### Properties

- Zero halogen
- Specific gravity: 1.03
- 100% recyclable
- Low outgassing
- Suitable for use in NFPA 79 applications

### Availability

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

### FIT® Tubing Recommendations

- FIT-221L: Low smoke zero halogen
- FIT Spiral Wrap: Zero-halogen wrap simplifies wire harnessing, cabling, and bundling

### 28 AWG (0.0925 mm<sup>2</sup>)

Stranding: 19/40 (19 x 0.079 mm)  
 Insulation thickness: 0.007 (0.18 mm)  
 Jacket thickness: 0.015 (0.38 mm)

Part Number	Pairs	Nominal Diameter	
		Inch	mm
78152	2	0.136	3.45
78153	3	0.144	3.66
78154	4	0.157	3.99
78105	5	0.171	4.34
78156	6	0.186	4.72
78158	8	0.202	5.13
78109	9	0.217	5.51

### 26 AWG (0.154 mm<sup>2</sup>)

Stranding: 19/38 (19 x 0.102 mm)  
 Insulation thickness: 0.007 (0.18 mm)  
 Jacket thickness: 0.015 (0.38 mm)

Part Number	Pairs	Nominal Diameter	
		Inch	mm
78162	2	0.150	3.81
78163	3	0.158	4.01
78164	4	0.173	4.39
78115	5	0.189	4.80
78166	6	0.206	5.23
78168	8	0.223	5.66
78119	9	0.241	6.12

### 24 AWG (0.241 mm<sup>2</sup>)

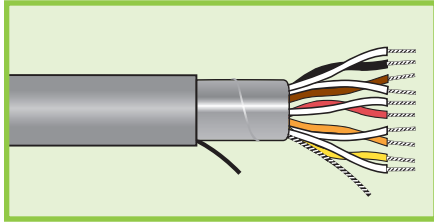
Stranding: 19/36 (19 x 0.127 mm)  
 Insulation thickness: 0.007 (0.18 mm)  
 Jacket thickness: 0.015 (0.38 mm)

Part Number	Pairs	Nominal Diameter	
		Inch	mm
78172	2	0.166	4.22
78173	3	0.176	4.47
78174	4	0.193	4.90
78125	5	0.211	5.36
78176	6	0.231	5.87
78178	8	0.251	6.38
78129	9	0.271	6.88
78418	20	0.373	9.47
78448	25	0.422	10.72



# EcoCable® Mini

## 300 V Foil Shielded, Multipair



**UL AWM 21460**  
**UL VW-1**  
**CSA I A/B FT1**

### Temperature Range

-40°C to + 80°C

### Conductor Color Coding

- Chart B (Chart A for 20 AWG)

### Materials

- Tinned copper conductors
- mPPE insulation
- mPPE jacket, slate
- Aluminum/polyester tape shield, 25% overlap, foil facing inward, and 26 AWG stranded drain wire

### Properties

- Zero halogen
- Specific gravity: 1.03
- 100% recyclable
- Low outgassing
- Suitable for use in NFPA 79 applications

### Availability

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

### FIT® Tubing Recommendations

- FIT-221L: Low smoke zero halogen
- FIT Spiral Wrap: Zero-halogen wrap simplifies wire harnessing, cabling, and bundling

### 22 AWG (0.382 mm<sup>2</sup>)

Stranding: 19/34 (19 x 0.16 mm)  
 Insulation thickness: 0.007 (0.18 mm)  
 Jacket thickness: 0.015 (0.38 mm)

Part Number	Pairs	Nominal Diameter	
		Inch	mm
78182	2	0.189	4.80
78183	3	0.201	5.11
78184	4	0.221	5.61
78135	5	0.243	6.17
78186	6	0.265	6.73
78188	8	0.289	7.34
78139	9	0.313	7.95
78419	20	0.433	11.00
78449	25	0.491	12.47

### 20 AWG (0.616 mm<sup>2</sup>)

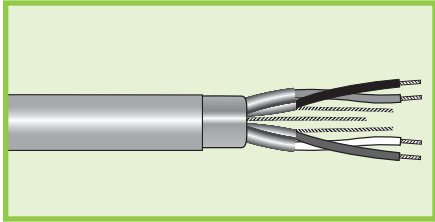
Stranding: 19/32 (19 x 0.203 mm)  
 Insulation thickness: 0.007 (0.18 mm)  
 Jacket thickness: 0.015 (0.38 mm)

Part Number	Pairs	Nominal Diameter	
		Inch	mm
78192	2	0.215	5.46
78193	3	0.229	5.82
78194	4	0.252	6.40
78145	5	0.278	7.06
78196	6	0.305	7.75
78198	8	0.332	8.43
78149	9	0.360	9.14
78420	20	0.502	12.75
78450	25	0.569	14.45



# EcoCable® Mini

300 V Overall Foil Shield and Individually Shielded Pairs, Multipair



**UL AWM 21460**  
**UL VW-1**  
**CSA I A/B FT1**

### Temperature Range

-40°C to + 80°C

### Conductor Color Coding

- Chart B (Chart A for 20 AWG)

### Materials

- Tinned copper conductors
- mPPE insulation
- Aluminum/polyester tape shield, 25% overlap, foil facing inward
- mPPE jacket, slate

### Properties

- Zero halogen
- Specific gravity: 1.03
- 100% recyclable
- Low outgassing
- Suitable for use in NFPA 79 applications

### Availability

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

### FIT® Tubing Recommendations

- FIT-221L: Low smoke zero halogen
- FIT Spiral Wrap: Zero-halogen wrap simplifies wire harnessing, cabling, and bundling

## 28 AWG (0.0925 mm<sup>2</sup>)

Stranding: 19/40 (19 x 0.079 mm)  
Insulation thickness: 0.007 (0.18 mm)  
Jacket thickness: 0.015 (0.38 mm)

Part Number	Pairs	Nominal Diameter	
		Inch	mm
78202	2	0.153	3.89
78213	3	0.162	4.11
78204	4	0.177	4.50
78205	5	0.194	4.93
78206	6	0.211	5.36
78208	8	0.229	5.82
78209	9	0.247	6.27

## 26 AWG (0.154 mm<sup>2</sup>)

Stranding: 19/38 (19 x 0.102 mm)  
Insulation thickness: 0.007 (0.18 mm)  
Jacket thickness: 0.015 (0.38 mm)

Part Number	Pairs	Nominal Diameter	
		Inch	mm
78212	2	0.167	4.24
78223	3	0.177	4.50
78214	4	0.194	4.93
78215	5	0.213	5.41
78216	6	0.232	5.89
78218	8	0.252	6.40
78219	9	0.273	6.93

## 24 AWG (0.241 mm<sup>2</sup>)

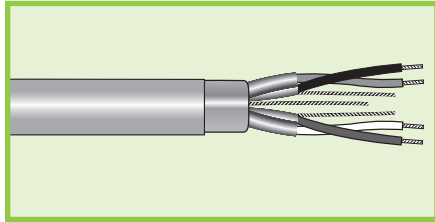
Stranding: 19/36 (19 x 0.127 mm)  
Insulation thickness: 0.007 (0.18 mm)  
Jacket thickness: 0.015 (0.38 mm)

Part Number	Pairs	Nominal Diameter	
		Inch	mm
78222	2	0.185	4.70
78233	3	0.196	4.98
78224	4	0.215	5.46
78225	5	0.237	6.02
78226	6	0.259	6.58
78228	8	0.282	7.16
78229	9	0.305	7.75



# EcoCable® Mini

300 V Overall Foil Shield and Individually Shielded Pairs, Multipair



**UL AWM 21460**  
**UL VW-1**  
**CSA I A/B FT1**

### Temperature Range

-40°C to + 80°C

### Conductor Color Coding

- Chart B (Chart A for 20 AWG)

### Materials

- Tinned copper conductors
- mPPE insulation
- Aluminum/polyester tape shield, 25% overlap, foil facing inward
- mPPE jacket, slate

### Properties

- Zero halogen
- Specific gravity: 1.03
- 100% recyclable
- Low outgassing
- Suitable for use in NFPA 79 applications

### Availability

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

### FIT® Tubing Recommendations

- FIT-221L: Low smoke zero halogen
- FIT Spiral Wrap: Zero-halogen wrap simplifies wire harnessing, cabling, and bundling

## 22 AWG (0.382 mm<sup>2</sup>)

Stranding: 19/34 (19 x 0.16 mm)  
Insulation thickness: 0.007 (0.18 mm)  
Jacket thickness: 0.015 (0.38 mm)

Part Number	Pairs	Nominal Diameter	
		Inch	mm
78232	2	0.209	5.31
78243	3	0.222	5.64
78234	4	0.245	6.22
78235	5	0.270	6.86
78236	6	0.296	7.52
78238	8	0.322	8.18
78239	9	0.349	8.86

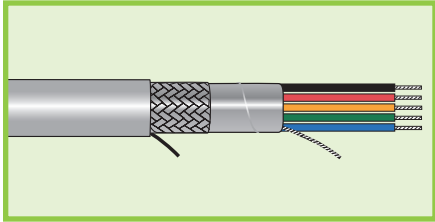
## 20 AWG (0.616 mm<sup>2</sup>)

Stranding: 19/32 (19 x 0.203 mm)  
Insulation thickness: 0.007 (0.18 mm)  
Jacket thickness: 0.015 (0.38 mm)

Part Number	Pairs	Nominal Diameter	
		Inch	mm
78242	2	0.237	6.02
78253	3	0.253	6.43
78244	4	0.279	7.09
78245	5	0.308	7.82
78246	6	0.338	8.59
78248	8	0.369	9.37
78249	9	0.400	10.16







**UL AWM 21460**  
**UL VW-1**  
**CSA I A/B FT1**

### Temperature Range

-40°C to + 80°C

### Conductor Color Coding

- Chart E (Chart D for 20 AWG)

### Materials

- Tinned copper conductors
- mPPE insulation
- Supra-Shield foil + braid shield: Aluminum/polyester/aluminum foil with 25% overlap min. Tinned copper drain wire
- Tinned copper braid, 70% coverage min.
- mPPE jacket, slate

### Properties

- Zero halogen
- Specific gravity: 1.03
- 100% recyclable
- Low outgassing
- Suitable for use in NFPA 79 applications

### Availability

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

### FIT® Tubing Recommendations

- FIT-221L: Low smoke zero halogen
- FIT Spiral Wrap: Zero-halogen wrap simplifies wire harnessing, cabling, and bundling

### 28 AWG (0.0925 mm²)

Stranding: 19/40 (19 x 0.079 mm)  
 Insulation thickness: 0.007 (0.18 mm)  
 Jacket thickness: 0.015 (0.38 mm)

Part Number	Conductors	Nominal Diameter	
		Inch	mm
78302	2	0.125	3.18
78303	3	0.130	3.30
78304	4	0.138	3.51
78306	6	0.155	3.94
78308	8	0.165	4.19

### 26 AWG (0.154 mm²)

Stranding: 19/38 (19 x 0.102 mm)  
 Insulation thickness: 0.007 (0.18 mm)  
 Jacket thickness: 0.015 (0.38 mm)

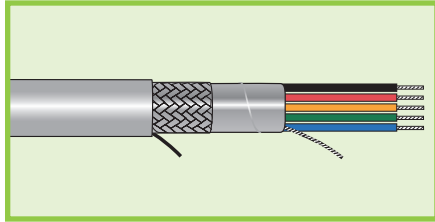
Part Number	Conductors	Nominal Diameter	
		Inch	mm
78312	2	0.133	3.38
78313	3	0.138	3.51
78314	4	0.147	3.73
78316	6	0.167	4.24
78318	8	0.178	4.52
78320	10	0.201	5.11
78321	15	0.221	5.61

### 24 AWG (0.241 mm²)

Stranding: 19/36 (19 x 0.127 mm)  
 Insulation thickness: 0.007 (0.18 mm)  
 Jacket thickness: 0.015 (0.38 mm)

Part Number	Conductors	Nominal Diameter	
		Inch	mm
78322	2	0.143	3.63
78323	3	0.149	3.78
78324	4	0.159	4.04
78326	6	0.183	4.65
78328	8	0.195	4.95
78330	10	0.221	5.61
78331	15	0.244	6.20
78423	20	0.269	6.83
78453	25	0.299	7.59





**UL AWM 21460**  
**UL VW-1**  
**CSA I A/B FT1**

### Temperature Range

-40°C to + 80°C

### Conductor Color Coding

- Chart E (Chart D for 20 AWG)

### Materials

- Tinned copper conductors
- mPPE insulation
- Supra-Shield foil + braid shield:  
 Aluminum/polyester/aluminum foil with 25% overlap min.  
 Tinned copper drain wire  
 Tinned copper braid,  
 70% coverage min.
- mPPE jacket, slate

### Properties

- Zero halogen
- Specific gravity: 1.03
- 100% recyclable
- Low outgassing
- Suitable for use in NFPA 79 applications

### Availability

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

### FIT® Tubing Recommendations

- FIT-221L: Low smoke zero halogen
- FIT Spiral Wrap: Zero-halogen wrap simplifies wire harnessing, cabling, and bundling

### 22 AWG (0.382 mm<sup>2</sup>)

Stranding: 19/34 (19 x 0.16 mm)  
 Insulation thickness: 0.007 (0.18 mm)  
 Jacket thickness: 0.015 (0.38 mm)

Part Number	Conductors	Nominal Diameter	
		Inch	mm
78332	2	0.157	3.99
78333	3	0.164	4.17
78334	4	0.176	4.47
78336	6	0.204	5.18
78338	8	0.218	5.54
78340	10	0.249	6.32
78341	15	0.276	7.01
78424	20	0.306	7.77
78454	25	0.341	8.66

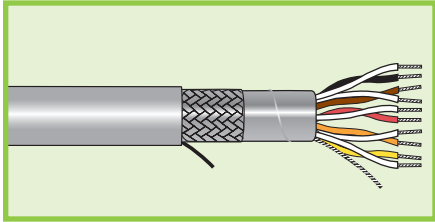
### 20 AWG (0.616 mm<sup>2</sup>)

Stranding: 19/32 (19 x 0.203 mm)  
 Insulation thickness: 0.007 (0.18 mm)  
 Jacket thickness: 0.015 (0.38 mm)

Part Number	Conductors	Nominal Diameter	
		Inch	mm
78342	2	0.173	4.39
78343	3	0.181	4.60
78344	4	0.196	4.98
78346	6	0.228	5.79
78348	8	0.245	6.22
78350	10	0.281	7.14
78355	15	0.313	7.95
78425	20	0.348	8.84
78455	25	0.389	9.88

# EcoCable® Mini

## 300 V Supra-Shield® Foil + Braid Shield, Multipair



**UL AWM 21460**  
**UL VW-1**  
**CSA I A/B FT1**

### Temperature Range

-40°C to + 80°C

### Conductor Color Coding

- Chart B (Chart A for 20 AWG)

### Materials

- Tinned copper conductors
- mPPE insulation
- Supra-Shield foil + braid shield: Aluminum/polyester/aluminum foil with 25% overlap min.  
Tinned copper drain wire  
Tinned copper braid, 70% coverage min.
- mPPE jacket, slate

### Properties

- Zero halogen
- Specific gravity: 1.03
- 100% recyclable
- Low outgassing
- Suitable for use in NFPA 79 applications

### Availability

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

### FIT® Tubing Recommendations

- FIT-221L: Low smoke zero halogen
- FIT Spiral Wrap: Zero-halogen wrap simplifies wire harnessing, cabling, and bundling

### 28 AWG (0.0925 mm<sup>2</sup>)

Stranding: 19/40 (19 x 0.079 mm)  
Insulation thickness: 0.007 (0.18 mm)  
Jacket thickness: 0.015 (0.38 mm)

Part Number	Pairs	Nominal Diameter	
		Inch	mm
78352	2	0.163	4.14
78353	3	0.171	4.34
78354	4	0.184	4.67
78305	5	0.198	5.03
78356	6	0.213	5.41
78358	8	0.229	5.82
78309	9	0.244	6.20

### 26 AWG (0.154 mm<sup>2</sup>)

Stranding: 19/38 (19 x 0.102 mm)  
Insulation thickness: 0.007 (0.18 mm)  
Jacket thickness: 0.015 (0.38 mm)

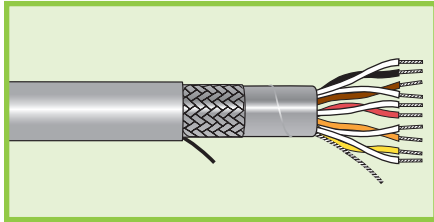
Part Number	Pairs	Nominal Diameter	
		Inch	mm
78362	2	0.177	4.50
78363	3	0.185	4.70
78364	4	0.200	5.08
78315	5	0.216	5.49
78366	6	0.233	5.92
78368	8	0.250	6.35
78319	9	0.268	6.81

### 24 AWG (0.241 mm<sup>2</sup>)

Stranding: 19/36 (19 x 0.127 mm)  
Insulation thickness: 0.007 (0.18 mm)  
Jacket thickness: 0.015 (0.38 mm)

Part Number	Pairs	Nominal Diameter	
		Inch	mm
78372	2	0.193	4.90
78373	3	0.203	5.16
78374	4	0.220	5.59
78325	5	0.238	6.05
78376	6	0.258	6.55
78378	8	0.278	7.06
78329	9	0.298	7.57
78428	20	0.400	10.16
78458	25	0.449	11.40





**UL AWM 21460**  
**UL VW-1**  
**CSA I A/B FT1**

### Temperature Range

-40°C to + 80°C

### Conductor Color Coding

- Chart B (Chart A for 20 AWG)

### Materials

- Tinned copper conductors
- mPPE insulation
- Supra-Shield foil + braid shield:  
 Aluminum/polyester/aluminum foil with 25% overlap min.  
 Tinned copper drain wire  
 Tinned copper braid,  
 70% coverage min.
- mPPE jacket, slate

### Properties

- Zero halogen
- Specific gravity: 1.03
- 100% recyclable
- Low outgassing
- Suitable for use in NFPA 79 applications

### Availability

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

### FIT® Tubing Recommendations

- FIT-221L: Low smoke zero halogen
- FIT Spiral Wrap: Zero-halogen wrap simplifies wire harnessing, cabling, and bundling

### 22 AWG (0.382 mm<sup>2</sup>)

Stranding: 19/34 (19 x 0.16 mm)  
 Insulation thickness: 0.007 (0.18 mm)  
 Jacket thickness: 0.015 (0.38 mm)

Part Number	Pairs	Nominal Diameter	
		Inch	mm
78382	2	0.216	5.49
78383	3	0.228	5.79
78384	4	0.248	6.30
78335	5	0.270	6.86
78386	6	0.292	7.42
78388	8	0.316	8.03
78339	9	0.340	8.64

### 20 AWG (0.616 mm<sup>2</sup>)

Stranding: 19/32 (19 x 0.203 mm)  
 Insulation thickness: 0.007 (0.18 mm)  
 Jacket thickness: 0.015 (0.38 mm)

Part Number	Pairs	Nominal Diameter	
		Inch	mm
78392	2	0.242	6.15
78393	3	0.256	6.50
78394	4	0.279	7.09
78345	5	0.305	7.75
78396	6	0.332	8.43
78398	8	0.359	9.12
78349	9	0.387	9.83

# EcoFlex® Cable

## 600 V Continuous Flex Control Cable



Rated for over 1 million flex life cycles, EcoFlex is a fully recyclable compact cable that's up to 32% smaller and 55% lighter than PVC.

- Up to 32% smaller and 55% lighter than PVC
- Long flex life for machines with constant motion or flexing
- Up to 91% lower outgassing
- Contains no halogens, PVC, phthalates, or heavy metals
- Exceptional EMI performance with Supra-Shield® foil + braid

**Conductors:** Stranded tinned copper

**Insulation:** mPPE

**Jacket:** mPPE, Slate

**Shielding:** Unshielded, foil shield, Supra-Shield® foil + braid

**Voltage:** 600 V

**Bend Radius:**  
Unshielded: 5x

**Temperature Range:** -40°C to + 105°C

**Availability:** 100', 1000'  
(30.5 m, 305 m)  
Bulk, cut to length

### Configurations

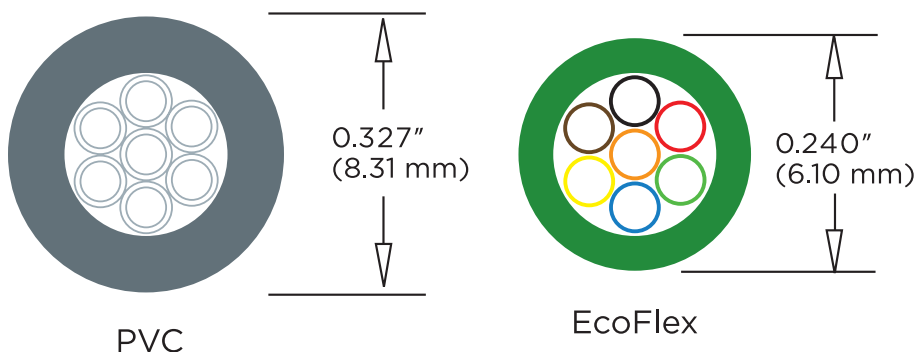
- Unshielded multiconductor
- Braid shielded multiconductor
- Supra-Shield® foil + braid shielded multiconductor
- Custom configurations available



### Approvals

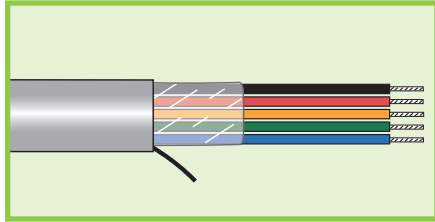
- UL AWM 21819 (600 V, 105°C)
- UL AWM 21492 (300 V, 80°C)
- CE
- UL VW-1
- CSA AWM I/II A/B FT1
- IEC 60332-2 Flame Behavior
- RoHS
- REACH
- WEEE
- Suitable for use in NFPA 79 applications
- ISO 10993-5

### 20 AWG (0.51 mm<sup>2</sup>) 7-Conductor Unshielded Cable



# EcoFlex® Cable

## 600 V Unshielded, Multiconductor



**UL AWM 21819 (600 V, 105°C)**  
**UL AWM 21492 (300 V, 80°C)**  
**UL VW-1**  
**CSA I/II A/B FT1**

### Temperature Range

-40°C to + 80°C

### Conductor Color Coding

- Chart D

### Materials

- Tinned copper conductors
- mPPE insulation
- mPPE jacket, slate

### Bend Radius

- Unshielded: 5x static, 5x flexing
- Shielded: 6x static, 8x flexing

### Properties

- Zero halogen
- Specific gravity: 1.03
- 100% recyclable
- Low outgassing
- Suitable for use in NFPA 79 applications
- IEC 60332-2 Flame Behavior

### Availability

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

### FIT® Tubing Recommendations

- FIT-221L: Low smoke zero halogen
- FIT Spiral Wrap: Zero-halogen wrap simplifies wire harnessing, cabling, and bundling

### 28 AWG (0.09 mm²)

Stranding: 7/36 (7 x 0.13 mm)  
 Insulation thickness: 0.010 (0.25 mm)  
 Jacket thickness: 0.035 (0.89 mm)

Part Number	Conductors	Nominal Diameter	
		Inch	mm
79061	2	0.142	3.61
79062	3	0.147	3.73

### 26 AWG (0.14 mm²)

Stranding: 7/34 (7 x 0.16 mm)  
 Insulation thickness: 0.010 (0.25 mm)  
 Jacket thickness: 0.035 (0.89 mm)

Part Number	Conductors	Nominal Diameter	
		Inch	mm
79056	2	0.150	3.81
79057	3	0.156	3.96
79058	4	0.166	4.22
79059	6	0.189	4.80
79060	8	0.216	5.49

### 24 AWG (0.24 mm²)

Stranding: 19/36 (19 x 0.13 mm)  
 Insulation thickness: 0.010 (0.25 mm)  
 Jacket thickness: 0.035 (0.89 mm)

Part Number	Conductors	Nominal Diameter	
		Inch	mm
79050	2	0.162	4.11
79051	3	0.169	4.29
79052	4	0.181	4.60
79053	6	0.207	5.26
79054	8	0.238	6.05
79055	10	0.257	6.53

### 22 AWG (0.38 mm²)

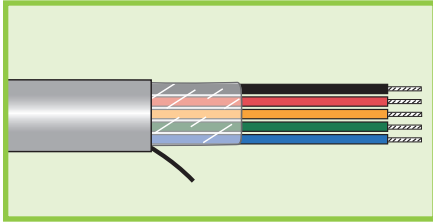
Stranding: 19/34 (19 x 0.16 mm)  
 Insulation thickness: 0.010 (0.25 mm)  
 Jacket thickness: 0.035 (0.89 mm)

Part Number	Conductors	Nominal Diameter	
		Inch	mm
79044	2	0.176	4.47
79045	3	0.184	4.67
79046	4	0.198	5.03
79047	6	0.228	5.79
79048	8	0.264	6.71
79049	10	0.286	7.26



# EcoFlex® Cable

## 600 V Unshielded, Multiconductor



**UL AWM 21819 (600 V, 105°C)**  
**UL AWM 21492 (300 V, 80°C)**  
**UL VW-1**  
**CSA I/II A/B FT1**

### Temperature Range

-40°C to + 80°C

### Conductor Color Coding

- Chart D

### Materials

- Tinned copper conductors
- mPPE insulation
- mPPE jacket, slate

### Bend Radius

- Unshielded: 5x static, 5x flexing
- Shielded: 6x static, 8x flexing

### Properties

- Zero halogen
- Specific gravity: 1.03
- 100% recyclable
- Low outgassing
- Suitable for use in NFPA 79 applications
- IEC 60332-2 Flame Behavior

### Availability

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

### FIT® Tubing Recommendations

- FIT-221L: Low smoke zero halogen
- FIT Spiral Wrap: Zero-halogen wrap simplifies wire harnessing, cabling, and bundling

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

Stranding: 10/30 (10 x 0.25 mm)  
 Insulation thickness: 0.010 (0.25 mm)  
 Jacket thickness: 0.035 (0.89 mm)

Part Number	Conductors	Nominal Diameter	
		Inch	mm
79001	2	0.184	4.67
79002	3	0.193	4.90
79003	4	0.207	5.26
79004	5	0.224	5.69
79005	7	0.240	6.10
79006	9	0.296	7.52
79007	12	0.303	7.70
79008	18	0.349	8.86

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

Stranding: 16/30 (16 x 0.25 mm)  
 Insulation thickness: 0.010 (0.25 mm)  
 Jacket thickness: 0.035 (0.89 mm)

Part Number	Conductors	Nominal Diameter	
		Inch	mm
79010	2	0.208	5.28
79011	3	0.219	5.56
79012	4	0.236	5.99
79013	5	0.256	6.50
79014	7	0.277	7.04
79015	9	0.344	8.74
79016	12	0.353	8.97
79017	18	0.411	10.44

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

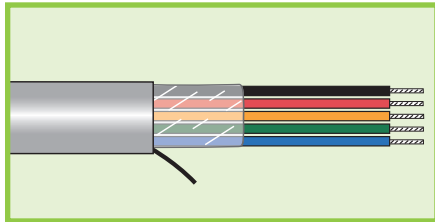
Stranding: 26/30 (26 x 0.25 mm)  
 Insulation thickness: 0.011 (0.28 mm)  
 Jacket thickness: 0.035 (0.89 mm)

Part Number	Conductors	Nominal Diameter	
		Inch	mm
79019	2	0.236	5.99
79020	3	0.249	6.32
79021	4	0.270	6.86
79022	5	0.294	7.47
79023	7	0.319	8.10
79024	9	0.400	10.16
79025	12	0.411	10.44
79026	18	0.481	12.22



# EcoFlex® Cable

## 600 V Unshielded, Multiconductor



**UL AWM 21819 (600 V, 105°C)**  
**UL AWM 21492 (300 V, 80°C)**  
**UL VW-1**  
**CSA I/II A/B FT1**

### Temperature Range

-40°C to + 80°C

### Conductor Color Coding

- Chart D

### Materials

- Tinned copper conductors
- mPPE insulation
- mPPE jacket, slate

### Bend Radius

- Unshielded: 5x static, 5x flexing
- Shielded: 6x static, 8x flexing

### Properties

- Zero halogen
- Specific gravity: 1.03
- 100% recyclable
- Low outgassing
- Suitable for use in NFPA 79 applications
- IEC 60332-2 Flame Behavior

### Availability

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

### FIT® Tubing Recommendations

- FIT-221L: Low smoke zero halogen
- FIT Spiral Wrap: Zero-halogen wrap simplifies wire harnessing, cabling, and bundling

### 14 AWG (2.08 mm²)

Stranding: 41/30 (41 x 0.25 mm)  
 Insulation thickness: 0.011 (0.28 mm)  
 Jacket thickness: 0.035 (0.81 mm)

Part Number	Conductors	Nominal Diameter	
		Inch	mm
79028	2	0.266	6.76
79029	3	0.281	7.14
79030	4	0.307	7.80
79031	5	0.335	8.51
79032	7	0.364	9.25
79033	9	0.459	11.66
79034	12	0.473	12.01
79035	18	0.556	14.12

### 12 AWG (3.29 mm²)

Stranding: 65/30 (65 x 0.25 mm)  
 Insulation thickness: 0.012 (0.30 mm)  
 Jacket thickness: 0.035 (0.81 mm)

Part Number	Conductors	Nominal Diameter	
		Inch	mm
79037	3	0.326	8.28
79038	4	0.358	9.09
79039	5	0.392	9.96
79040	7	0.428	10.87

### 10 AWG (5.32 mm²)

Stranding: 105/30 (105 x 0.25 mm)  
 Insulation thickness: 0.012 (0.30 mm)  
 Jacket thickness: 0.035 (0.81 mm)

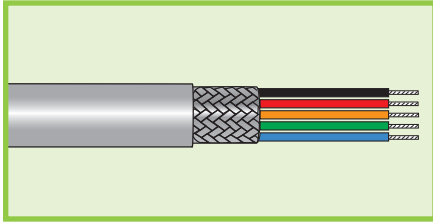
Part Number	Conductors	Nominal Diameter	
		Inch	mm
79041	3	0.380	9.65
79042	4	0.423	10.74
79043	5	0.465	11.81





# EcoFlex® Cable

## 600 V Braid Shield, Multiconductor



**UL AWM 21819 (600 V, 105°C)**  
**UL AWM 21492 (300 V, 80°C)**  
**UL VW-1**  
**CSA I/II A/B FT1**

### Temperature Range

-40°C to + 80°C

### Conductor Color Coding

- Chart D

### Materials

- Tinned copper conductors
- mPPE insulation
- Tinned copper braid, 70% min. coverage
- mPPE jacket, slate

### Bend Radius

- Unshielded: 5x static, 5x flexing
- Shielded: 6x static, 8x flexing

### Properties

- Zero halogen
- Specific gravity: 1.03
- 100% recyclable
- Low outgassing
- Suitable for use in NFPA 79 applications
- IEC 60332-2 Flame Behavior

### Availability

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

### FIT® Tubing Recommendations

- FIT-221L: Low smoke zero halogen
- FIT Spiral Wrap: Zero-halogen wrap simplifies wire harnessing, cabling, and bundling



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

Stranding: 10/30 (10 x 0.25 mm)  
 Insulation thickness: 0.010 (0.25 mm)  
 Jacket thickness: 0.035 (0.89 mm)

Part Number	Conductors	Nominal Diameter	
		Inch	mm
79101	2	0.210	5.33
79102	3	0.219	5.56
79103	4	0.233	5.92
79104	5	0.250	6.35
79105	7	0.266	6.76
79106	9	0.321	8.15
79107	12	0.329	8.36
79108	18	0.376	9.55

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

Stranding: 16/30 (16 x 0.25 mm)  
 Insulation thickness: 0.010 (0.25 mm)  
 Jacket thickness: 0.035 (0.89 mm)

Part Number	Conductors	Nominal Diameter	
		Inch	mm
79109	2	0.236	5.99
79110	3	0.247	6.27
79111	4	0.264	6.71
79112	5	0.284	7.21
79113	7	0.305	7.75
79114	9	0.372	9.45
79115	12	0.381	9.68

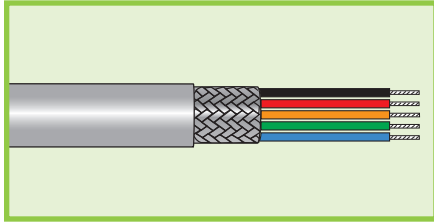
### 16 AWG (1.32 mm<sup>2</sup>)

Stranding: 26/30 (26 x 0.25 mm)  
 Insulation thickness: 0.011 (0.28 mm)  
 Jacket thickness: 0.035 (0.89 mm)

Part Number	Conductors	Nominal Diameter	
		Inch	mm
79116	2	0.262	6.65
79117	3	0.275	6.98
79118	4	0.296	7.52
79119	5	0.320	8.13
79120	7	0.345	8.76

# EcoFlex® Cable

## 600 V Braid Shield, Multiconductor



**UL AWM 21819 (600 V, 105°C)**  
**UL AWM 21492 (300 V, 80°C)**  
**UL VW-1**  
**CSA I/II A/B FT1**

### Temperature Range

-40°C to + 80°C

### Conductor Color Coding

- Chart D

### Materials

- Tinned copper conductors
- mPPE insulation
- Tinned copper braid, 70% min. coverage
- mPPE jacket, slate

### Bend Radius

- Unshielded: 5x static, 5x flexing
- Shielded: 6x static, 8x flexing

### Properties

- Zero halogen
- Specific gravity: 1.03
- 100% recyclable
- Low outgassing
- Suitable for use in NFPA 79 applications
- IEC 60332-2 Flame Behavior

### Availability

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

### FIT® Tubing Recommendations

- FIT-221L: Low smoke zero halogen
- FIT Spiral Wrap: Zero-halogen wrap simplifies wire harnessing, cabling, and bundling



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

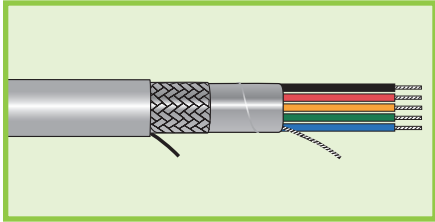
Stranding: 41/30 (41 x 0.25 mm)  
 Insulation thickness: 0.011 (0.28 mm)  
 Jacket thickness: 0.035 (0.81 mm)

Part Number	Conductors	Nominal Diameter	
		Inch	mm
79121	2	0.294	7.47
79122	3	0.309	7.85
79123	4	0.335	8.51
79124	5	0.363	9.22
79125	7	0.392	9.96

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

Stranding: 65/30 (65 x 0.25 mm)  
 Insulation thickness: 0.012 (0.30 mm)  
 Jacket thickness: 0.035 (0.81 mm)

Part Number	Conductors	Nominal Diameter	
		Inch	mm
79126	3	0.354	8.99
79127	4	0.386	9.80



**UL AWM 21819 (600 V, 105°C)**  
**UL AWM 21492 (300 V, 80°C)**  
**UL VW-1**  
**CSA I/II A/B FT1**

### Temperature Range

-40°C to + 80°C

### Conductor Color Coding

- Chart D

### Materials

- Tinned copper conductors
- mPPE insulation
- Supra-Shield foil + braid shield: Aluminum/polyester/aluminum foil with 25% overlap min. Tinned copper drain wire Tinned copper braid, 70% coverage min.
- mPPE jacket, slate

### Bend Radius

- Unshielded: 5x static, 5x flexing
- Shielded: 6x static, 8x flexing

### Properties

- Zero halogen
- Specific gravity: 1.03
- 100% recyclable
- Low outgassing
- Suitable for use in NFPA 79 applications
- IEC 60332-2 Flame Behavior

### Availability

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

### FIT® Tubing Recommendations

- FIT-221L: Low smoke zero halogen
- FIT Spiral Wrap: Zero-halogen wrap simplifies wire harnessing, cabling, and bundling

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

Stranding: 7/36 (7 x 0.13 mm)  
 Insulation thickness: 0.010 (0.25 mm)  
 Jacket thickness: 0.035 (0.89 mm)

Part Number	Conductors	Nominal Diameter	
		Inch	mm
79261	2	0.174	4.42
79262	3	0.179	4.55

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

Stranding: 7/34 (7 x 0.16 mm)  
 Insulation thickness: 0.010 (0.25 mm)  
 Jacket thickness: 0.035 (0.89 mm)

Part Number	Conductors	Nominal Diameter	
		Inch	mm
79256	2	0.182	4.62
79257	3	0.188	4.78
79258	4	0.198	5.03
79259	6	0.221	5.61
79260	8	0.248	6.30

### 24 AWG (0.24 mm<sup>2</sup>)

Stranding: 19/36 (19 x 0.13 mm)  
 Insulation thickness: 0.010 (0.25 mm)  
 Jacket thickness: 0.035 (0.89 mm)

Part Number	Conductors	Nominal Diameter	
		Inch	mm
79250	2	0.194	4.93
79251	3	0.201	5.11
79252	4	0.213	5.41
79253	6	0.239	6.07
79254	8	0.270	6.86
79255	10	0.289	7.34

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

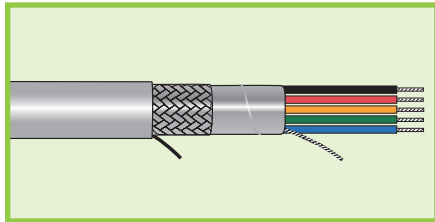
Stranding: 19/34 (19 x 0.16 mm)  
 Insulation thickness: 0.010 (0.25 mm)  
 Jacket thickness: 0.035 (0.89 mm)

Part Number	Conductors	Nominal Diameter	
		Inch	mm
79244	2	0.208	5.28
79245	3	0.216	5.49
79246	4	0.230	5.84
79247	6	0.260	6.60
79248	8	0.296	7.52
79249	10	0.318	8.08



# EcoFlex® Cable

600 V Supra-Shield® Foil + Braid Shield, Multiconductor



**UL AWM 21819 (600 V, 105°C)**  
**UL AWM 21492 (300 V, 80°C)**  
**UL VW-1**  
**CSA I/II A/B FT1**

## Temperature Range

-40°C to + 80°C

## Conductor Color Coding

- Chart D

## Materials

- Tinned copper conductors
- mPPE insulation
- Supra-Shield foil + braid shield:  
Aluminum/polyester/aluminum foil with 25% overlap min.  
Tinned copper drain wire  
Tinned copper braid,  
70% coverage min.
- mPPE jacket, slate

## Bend Radius

- Unshielded: 5x static, 5x flexing
- Shielded: 6x static, 8x flexing

## Properties

- Zero halogen
- Specific gravity: 1.03
- 100% recyclable
- Low outgassing
- Suitable for use in NFPA 79 applications
- IEC 60332-2 Flame Behavior

## Availability

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

## FIT® Tubing Recommendations

- FIT-221L: Low smoke zero halogen
- FIT Spiral Wrap: Zero-halogen wrap simplifies wire harnessing, cabling, and bundling

### 20 AWG (0.51 mm²)

Stranding: 10/30 (10 x 0.25 mm)  
 Insulation thickness: 0.010 (0.25 mm)  
 Jacket thickness: 0.035 (0.89 mm)

Part Number	Conductors	Nominal Diameter	
		Inch	mm
79201	2	0.216	5.49
79202	3	0.225	5.72
79203	4	0.239	6.07
79204	5	0.256	6.50
79205	7	0.272	6.91
79206	9	0.328	8.33
79207	12	0.335	8.51
79208	18	0.382	9.70

### 18 AWG (0.81 mm²)

Stranding: 16/30 (16 x 0.25 mm)  
 Insulation thickness: 0.010 (0.25 mm)  
 Jacket thickness: 0.035 (0.89 mm)

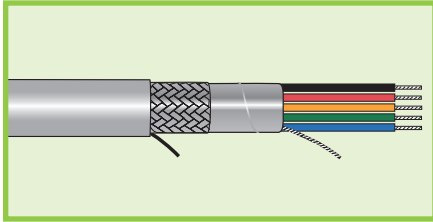
Part Number	Conductors	Nominal Diameter	
		Inch	mm
79210	2	0.242	6.15
79211	3	0.253	6.43
79212	4	0.270	6.86
79213	5	0.290	7.37
79214	7	0.311	7.90
79215	9	0.378	9.60
79216	12	0.387	9.83
79217	18	0.445	11.30

### 16 AWG (1.32 mm²)

Stranding: 26/30 (26 x 0.25 mm)  
 Insulation thickness: 0.011 (0.28 mm)  
 Jacket thickness: 0.035 (0.89 mm)

Part Number	Conductors	Nominal Diameter	
		Inch	mm
79218	2	0.268	6.81
79219	3	0.281	7.14
79220	4	0.302	7.67
79221	5	0.326	8.28
79222	7	0.351	8.92
79223	9	0.432	10.97
79224	12	0.443	11.25





**UL AWM 21819 (600 V, 105°C)**  
**UL AWM 21492 (300 V, 80°C)**  
**UL VW-1**  
**CSA I/II A/B FT1**

### Temperature Range

-40°C to + 80°C

### Conductor Color Coding

- Chart D

### Materials

- Tinned copper conductors
- mPPE insulation
- Supra-Shield foil + braid shield: Aluminum/polyester/aluminum foil with 25% overlap min. Tinned copper drain wire Tinned copper braid, 70% coverage min.
- mPPE jacket, slate

### Bend Radius

- Unshielded: 5x static, 5x flexing
- Shielded: 6x static, 8x flexing

### Properties

- Zero halogen
- Specific gravity: 1.03
- 100% recyclable
- Low outgassing
- Suitable for use in NFPA 79 applications
- IEC 60332-2 Flame Behavior

### Availability

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

### FIT® Tubing Recommendations

- FIT-221L: Low smoke zero halogen
- FIT Spiral Wrap: Zero-halogen wrap simplifies wire harnessing, cabling, and bundling

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

Stranding: 41/30 (41 x 0.25 mm)  
 Insulation thickness: 0.011 (0.28 mm)  
 Jacket thickness: 0.035 (0.81 mm)

Part Number	Conductors	Nominal Diameter	
		Inch	mm
79225	2	0.300	7.62
79226	3	0.315	8.00
79227	4	0.341	8.66
79228	5	0.369	9.37
79229	7	0.398	10.11
79230	9	0.493	12.52
79231	12	0.507	12.88

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

Stranding: 65/30 (65 x 0.25 mm)  
 Insulation thickness: 0.012 (0.30 mm)  
 Jacket thickness: 0.035 (0.81 mm)

Part Number	Conductors	Nominal Diameter	
		Inch	mm
79232	3	0.360	9.14
79233	4	0.391	9.93
79234	5	0.426	10.82
79235	7	0.462	11.73

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

Stranding: 105/30 (105 x 0.25 mm)  
 Insulation thickness: 0.012 (0.30 mm)  
 Jacket thickness: 0.035 (0.81 mm)

Part Number	Conductors	Nominal Diameter	
		Inch	mm
79236	3	0.419	10.64
79237	4	0.457	11.61



# EcoFlex® PUR Cable

## Rugged 600 V Continuous Flex Cable



EcoFlex PUR cable provides abrasion, UV, and oil resistance with a tough, zero-halogen polyurethane jacket. It's up to 40% smaller and 44% lighter than other 600 V continuous flex cables.

- Up to 40% smaller and 44% lighter
- Rated for over 8 million flex cycles
- Flexible at low temperatures
- Unshielded or braid shielding
- 28 to 10 AWG
- Zero halogen
- Contains no heavy metals or phthalates
- 2 to 36 conductors

**Conductors:** Finely stranded tinned copper (IEC 60228 Conductors, Class 6)

**Insulation:** mPPE

**Jacket:** PUR, zero halogen, slate

**Shielding:**

- Unshielded
- Tinned copper braid, 85% coverage

**Voltage:** 600 V (UL)

**Temperature Range:**

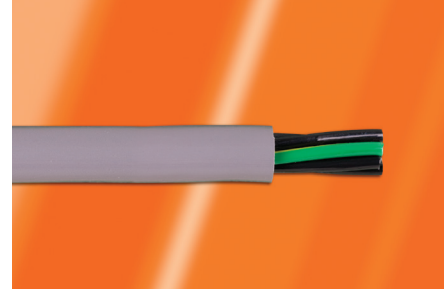
- -40°C to + 80°C (dynamic)
- -50°C to + 90°C (static)

**Availability:**

- 100' put-up in stock
- Bulk (Min. 1000')

**Configurations**

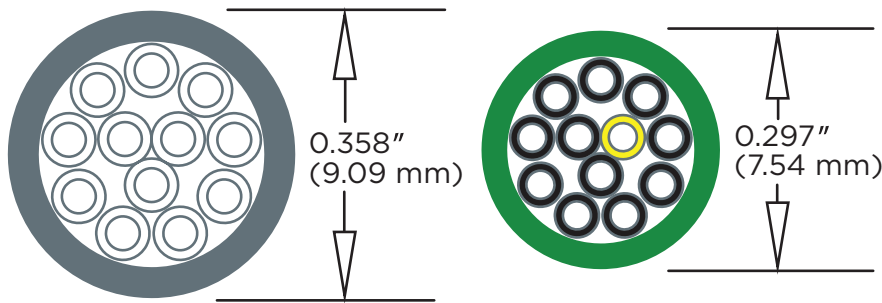
- Unshielded multiconductor
- Braid shielded multiconductor
- Custom configuration available



**Approvals**

- UL AWM 21959 (90°C / 600 VRMS)
- UL Oil Res I
- UL Sunlight Resistant
- CSA AWM I/II A/B FT2
- IEC 60332-1 Flame Behavior
- IEC 60332-2 Flame Behavior
- IEC 60754-2 Acid Gas Generation
- IEC 60228 Class 6
- EU Low Voltage Directive 2006/95/EC
- RoHS
- REACH

### 20 AWG (0.523 mm<sup>2</sup>) 12-Conductor Unshielded Cable



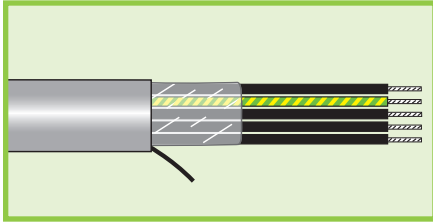
Traditional PUR Cable

EcoFlex PUR

Order free samples at [www.alphawire.com/ecogen](http://www.alphawire.com/ecogen) or call 1-800-52-ALPHA

# EcoFlex® PUR Cable

## 600 V Unshielded, Multiconductor



**UL AWM 21959 (90°C / 600 VRMS)**  
**CSA AWM I/II A/B FT2**

### Temperature Range

- 40°C to + 80°C (dynamic)
- 50°C to + 90°C (static)

### Conductor Color Coding

- Black and numbered, with one green/yellow, except where noted

### Materials

- Finely stranded tinned copper
- mPPE insulation
- PUR, zero halogen jacket, slate

### Properties

- Up to 40% smaller and 44% lighter
- Rated for over 8 million flex cycles
- Flexible at low temperatures
- Zero halogen
- Contains no heavy metals or phthalates

### Flammability

- IEC 60332-1 Flame Behavior
- IEC 60332-2 Flame Behavior
- IEC 60754-2 Acid Gas Generation

### Additional Approvals

- UL Oil Res I
- UL Sunlight Resistant
- IEC 60228 Class 6
- EU Low Voltage Directive 2006/95/EC

### Availability

100 ft (30.5 m) put-up in stock  
 Bulk (Min. 1000 ft (305 m))

### FIT® Tubing Recommendations

- FIT-221L: Low smoke zero halogen

### 28 AWG (0.0925 mm<sup>2</sup>)

Stranding: 19/40 (19 x 0.079 mm)  
 Insulation thickness: 0.010 (0.25 mm)  
 Jacket thickness: 0.032 (0.81 mm)

Part Number	Conductors	Nominal Diameter	
		Inch	mm
80001	2	0.140	3.56
80002	3	0.146	3.71

(Color code D)

### 26 AWG (0.154 mm<sup>2</sup>)

Stranding: 19/38 (19 x 0.102 mm)  
 Insulation thickness: 0.010 (0.25 mm)  
 Jacket thickness: 0.032 (0.81 mm)

Part Number	Conductors	Nominal Diameter	
		Inch	mm
80003	2	0.150	3.81
80004	3	0.156	3.96
80005	5	0.179	4.55
80006	7	0.192	4.88
80007	9	0.231	5.87

(Color code D)

### 24 AWG (0.241 mm<sup>2</sup>)

Stranding: 19/36 (19 x 0.127 mm)  
 Insulation thickness: 0.010 (0.25 mm)  
 Jacket thickness: 0.032 (0.81 mm)

Part Number	Conductors	Nominal Diameter	
		Inch	mm
80008	2	0.158	4.01
80009	3	0.165	4.19
80010	5	0.190	4.83
80011	7	0.204	5.18
80012	9	0.247	6.27
80013	10	0.248	6.30

### 22 AWG (0.382 mm<sup>2</sup>)

Stranding: 19/34 (19 x 0.16 mm)  
 Insulation thickness: 0.010 (0.25 mm)  
 Jacket thickness: 0.032 (0.81 mm)

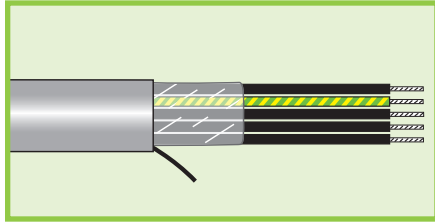
Part Number	Conductors	Nominal Diameter	
		Inch	mm
80014	2	0.172	4.37
80015	3	0.180	4.57
80016	4	0.195	4.95
80017	6	0.225	5.72
80018	9	0.275	6.98
80019	10	0.276	7.01

- FIT Spiral Wrap: Zero-halogen wrap simplifies wire harnessing, cabling, and bundling



# EcoFlex® PUR Cable

## 600 V Unshielded, Multiconductor



**UL AWM 21959 (90°C / 600 VRMS)**  
**CSA AWM I/II A/B FT2**

### Temperature Range

-40°C to + 80°C (dynamic)  
 -50°C to + 90°C (static)

### Conductor Color Coding

- Black and numbered, with one green/yellow

### Materials

- Finely stranded tinned copper
- mPPE insulation
- PUR, zero halogen jacket, slate

### Properties

- Up to 40% smaller and 44% lighter
- 8 million flex cycles (and still counting)
- Flexible at low temperatures
- Zero halogen
- Contains no heavy metals or phthalates

### Flammability

- IEC 60332-1 Flame Behavior
- IEC 60332-2 Flame Behavior
- IEC 60754-2 Acid Gas Generation

### Additional Approvals

- UL Oil Res I
- UL Sunlight Resistant
- IEC 60228 Class 6
- EU Low Voltage Directive 2006/95/EC

### Availability

100 ft (30.5 m) put-up in stock  
 Bulk (Min. 1000 ft (305 m))

### FIT® Tubing Recommendations

- FIT-221L: Low smoke zero halogen

### 20 AWG (0.523 mm<sup>2</sup>)

Stranding: 26/34 (26 x 0.16 mm)  
 Insulation thickness: 0.010 (0.25 mm)  
 Jacket thickness: 0.032 (0.81 mm)

Part Number	Conductors	Nominal Diameter	
		Inch	mm
80020	2	0.178	4.52
80021	3	0.187	4.75
80022	5	0.217	5.51
80023	6	0.234	5.94
80024	7	0.234	5.94
80025	9	0.287	7.29
80026	12	0.297	7.54
80027	18	0.344	8.74
80028	20	0.361	9.17
80029	25	0.398	10.11
80030	30	0.421	10.69
80031	36	0.454	11.53

### 18 AWG (0.825 mm<sup>2</sup>)

Stranding: 41/34 (41 x 0.16 mm)  
 Insulation thickness: 0.010 (0.25 mm)  
 Jacket thickness: 0.032 (0.81 mm)

Part Number	Conductors	Nominal Diameter	
		Inch	mm
80032	2	0.202	5.13
80033	3	0.213	5.41
80034	4	0.231	5.87
80035	5	0.250	6.35
80036	7	0.271	6.88
80037	9	0.334	8.48
80038	12	0.347	8.81
80039	18	0.405	10.29
80040	25	0.470	11.94

### 16 AWG (1.31 mm<sup>2</sup>)

Stranding: 65/34 (65 x 0.16 mm)  
 Insulation thickness: 0.012 (0.30 mm)  
 Jacket thickness: 0.032 (0.81 mm)

Part Number	Conductors	Nominal Diameter	
		Inch	mm
80041	2	0.228	5.79
80042	3	0.241	6.12
80043	4	0.263	6.68
80044	5	0.285	7.24
80045	7	0.310	7.87
80046	9	0.386	9.80
80047	12	0.401	10.19
80048	18	0.470	11.94
80049	25	0.548	13.92
80050*	36	0.672	17.07

\*0.053 (1.35 mm) jacket thickness

- FIT Spiral Wrap: Zero-halogen wrap simplifies wire harnessing, cabling, and bundling



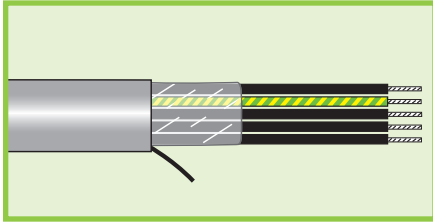
Alpha Wire | [www.alphawire.com](http://www.alphawire.com) | 1-800-52 ALPHA

Specifications subject to change. For complete specifications and availability, visit [www.alphawire.com](http://www.alphawire.com).



# EcoFlex® PUR Cable

## 600 V Unshielded, Multiconductor



**UL AWM 21959 (90°C / 600 VRMS)**  
**CSA AWM I/II A/B FT2**

### Temperature Range

-40°C to + 80°C (dynamic)  
 -50°C to + 90°C (static)

### Conductor Color Coding

- Black and numbered, with one green/yellow

### Materials

- Finely stranded tinned copper
- mPPE insulation
- PUR, zero halogen jacket, slate

### Properties

- Up to 40% smaller and 44% lighter
- 8 million flex cycles (and still counting)
- Flexible at low temperatures
- Zero halogen
- Contains no heavy metals or phthalates

### Flammability

- IEC 60332-1 Flame Behavior
- IEC 60332-2 Flame Behavior
- IEC 60754-2 Acid Gas Generation

### Additional Approvals

- UL Oil Res I
- UL Sunlight Resistant
- IEC 60228 Class 6
- EU Low Voltage Directive 2006/95/EC

### Availability

100 ft (30.5 m) put-up in stock  
 Bulk (Min. 1000 ft (305 m))

### FIT® Tubing Recommendations

- FIT-221L: Low smoke zero halogen

### 14 AWG (2.11 mm²)

Stranding: 105/34 (105 x 0.16 mm)  
 Insulation thickness: 0.013 (0.33 mm)  
 Jacket thickness: 0.032 (0.81 mm)

Part Number	Conductors	Nominal Diameter	
		Inch	mm
80052	3	0.275	6.98
80053	4	0.301	7.65
80054	5	0.329	8.36
80055	7	0.358	9.09
80056	9	0.449	11.40
80057	12	0.467	11.86
80058	18	0.550	13.97
80059*	25	0.686	17.42

\*0.053 (1.35 mm) jacket thickness

### 12 AWG (3.38 mm²)

Stranding: 168/34 (168 x 0.16 mm)  
 Insulation thickness: 0.015 (0.38 mm)  
 Jacket thickness: 0.032 (0.81 mm)

Part Number	Conductors	Nominal Diameter	
		Inch	mm
80060	3	0.357	9.07
80061	4	0.393	9.98
80062	5	0.432	10.97
80063	7	0.473	12.01
80064*	9	0.642	16.31

\*0.053 (1.35 mm) jacket thickness

### 10 AWG (5.21 mm²)

Stranding: 259/34 (259 x 0.16 mm)  
 Insulation thickness: 0.020 (0.51 mm)  
 Jacket thickness: 0.053 (1.35 mm)

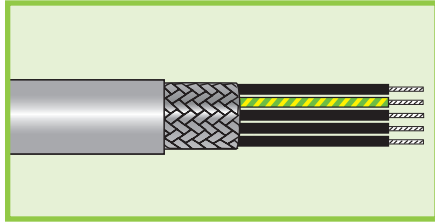
Part Number	Conductors	Nominal Diameter	
		Inch	mm
80065	3	0.481	12.23
80066	4	0.528	13.41
80067	5	0.577	14.66
80068	7	0.630	16.00

- FIT Spiral Wrap: Zero-halogen wrap simplifies wire harnessing, cabling, and bundling



# EcoFlex® PUR Cable

## 600 V Braid Shielded, Multiconductor



**UL AWM 21959 (90°C / 600 VRMS)**  
**CSA AWM I/II A/B FT2**

### Temperature Range

-40°C to + 80°C (dynamic)  
 -50°C to + 90°C (static)

### Conductor Color Coding

- Black and numbered, with one green/yellow, except where noted

### Materials

- Finely stranded tinned copper
- mPPE insulation
- Tinned copper braid, 85% coverage
- PUR, zero halogen jacket, slate

### Properties

- Up to 40% smaller and 44% lighter
- 8 million flex cycles (and still counting)
- Flexible at low temperatures
- Zero halogen
- Contains no heavy metals or phthalates

### Flammability

- IEC 60332-1 Flame Behavior
- IEC 60332-2 Flame Behavior
- IEC 60754-2 Acid Gas Generation

### Additional Approvals

- UL Oil Res I
- UL Sunlight Resistant
- IEC 60228 Class 6
- EU Low Voltage Directive 2006/95/EC

### Availability

100 ft (30.5 m) put-up in stock  
 Bulk (Min. 1000 ft (305 m))

### FIT® Tubing Recommendations

- FIT-221L: Low smoke zero halogen

#### 28 AWG (0.0925 mm<sup>2</sup>)

Stranding: 19/40 (19 x 0.079 mm)  
 Insulation thickness: 0.010 (0.25 mm)  
 Jacket thickness: 0.032 (0.81 mm)

Part Number	Conductors	Nominal Diameter	
		Inch	mm
80101	2	0.168	4.27
80102	3	0.174	4.42

(Color code D)

#### 26 AWG (0.154 mm<sup>2</sup>)

Stranding: 19/38 (19 x 0.102 mm)  
 Insulation thickness: 0.010 (0.25 mm)  
 Jacket thickness: 0.032 (0.81 mm)

Part Number	Conductors	Nominal Diameter	
		Inch	mm
80103	2	0.178	4.52
80104	3	0.184	4.67
80105	4	0.196	4.98
80106	6	0.220	5.59
80107	8	0.246	6.25

(Color code D)

#### 24 AWG (0.241 mm<sup>2</sup>)

Stranding: 19/36 (19 x 0.127 mm)  
 Insulation thickness: 0.010 (0.25 mm)  
 Jacket thickness: 0.032 (0.81 mm)

Part Number	Conductors	Nominal Diameter	
		Inch	mm
80108	2	0.186	4.72
80109	3	0.193	4.90
80110	5	0.218	5.54
80111	7	0.232	5.89
80112	9	0.275	6.98
80113	10	0.276	7.01

#### 22 AWG (0.382 mm<sup>2</sup>)

Stranding: 19/34 (19 x 0.16 mm)  
 Insulation thickness: 0.010 (0.25 mm)  
 Jacket thickness: 0.032 (0.81 mm)

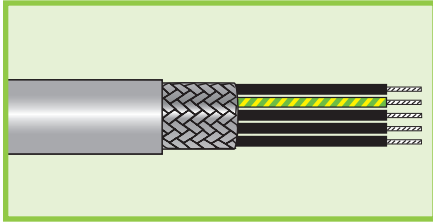
Part Number	Conductors	Nominal Diameter	
		Inch	mm
80114	2	0.200	5.08
80115	3	0.208	5.28
80116	4	0.223	5.66
80117	6	0.253	6.43
80118	9	0.303	7.70
80119	10	0.304	7.72

- FIT Spiral Wrap: Zero-halogen wrap simplifies wire harnessing, cabling, and bundling



# EcoFlex® PUR Cable

## 600 V Braid Shielded, Multiconductor



**UL AWM 21959 (90°C / 600 VRMS)**  
**CSA AWM I/II A/B FT2**

### Temperature Range

- 40°C to + 80°C (dynamic)
- 50°C to + 90°C (static)

### Conductor Color Coding

- Black and numbered, with one green/yellow

### Materials

- Finely stranded tinned copper
- mPPE insulation
- Tinned copper braid, 85% coverage
- PUR, zero halogen jacket, slate

### Properties

- Up to 40% smaller and 44% lighter
- 8 million flex cycles (and still counting)
- Flexible at low temperatures
- Zero halogen
- Contains no heavy metals or phthalates

### Flammability

- IEC 60332-1 Flame Behavior
- IEC 60332-2 Flame Behavior
- IEC 60754-2 Acid Gas Generation

### Additional Approvals

- UL Oil Res I
- UL Sunlight Resistant
- IEC 60228 Class 6
- EU Low Voltage Directive 2006/95/EC

### Availability

100 ft (30.5 m) put-up in stock  
 Bulk (Min. 1000 ft (305 m))

### FIT® Tubing Recommendations

- FIT-221L: Low smoke zero halogen

### 20 AWG (0.523 mm²)

Stranding: 26/34 (26 x 0.16 mm)  
 Insulation thickness: 0.010 (0.25 mm)  
 Jacket thickness: 0.032 (0.81 mm)

Part Number	Conductors	Nominal Diameter	
		Inch	mm
80120	2	0.206	5.23
80121	3	0.215	5.46
80122	5	0.245	6.22
80123	6	0.262	6.65
80124	7	0.262	6.65
80125	9	0.315	8.00
80126	12	0.325	8.25
80127	18	0.372	9.45
80128	20	0.389	9.88
80129	25	0.426	10.82
80130	30	0.449	11.40
80131	36	0.488	12.40

### 18 AWG (0.825 mm²)

Stranding: 41/34 (41 x 0.16 mm)  
 Insulation thickness: 0.010 (0.25 mm)  
 Jacket thickness: 0.032 (0.81 mm)

Part Number	Conductors	Nominal Diameter	
		Inch	mm
80132	2	0.223	5.66
80133	3	0.241	6.12
80134	4	0.259	6.58
80135	5	0.278	7.06
80136	7	0.299	7.59
80137	9	0.362	9.19
80138	12	0.375	9.53
80139	18	0.433	11.00
80140	25	0.504	12.80

### 16 AWG (1.31 mm²)

Stranding: 65/34 (65 x 0.16 mm)  
 Insulation thickness: 0.012 (0.30 mm)  
 Jacket thickness: 0.032 (0.81 mm)

Part Number	Conductors	Nominal Diameter	
		Inch	mm
80141	2	0.256	6.50
80142	3	0.269	6.83
80143	4	0.291	7.39
80144	5	0.313	7.95
80145	7	0.338	8.59
80146	9	0.414	10.52
80147	12	0.429	10.90
80148	18	0.504	12.80
80149*	25	0.624	15.85
80050*	36	0.672	17.07

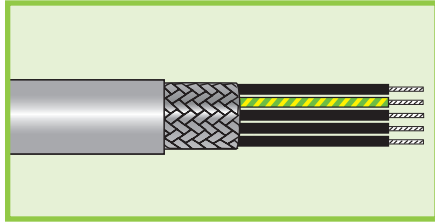
\*0.053 (1.35 mm) jacket thickness

- FIT Spiral Wrap: Zero-halogen wrap simplifies wire harnessing, cabling, and bundling



# EcoFlex® PUR Cable

## 600 V Braid Shielded, Multiconductor



**UL AWM 21959 (90°C / 600 VRMS)**  
**CSA AWM I/II A/B FT2**

### Temperature Range

-40°C to + 80°C (dynamic)  
 -50°C to + 90°C (static)

### Conductor Color Coding

- Black and numbered, with one green/yellow

### Materials

- Finely stranded tinned copper
- mPPE insulation
- Tinned copper braid, 85% coverage
- PUR, zero halogen jacket, slate

### Properties

- Up to 40% smaller and 44% lighter
- 8 million flex cycles (and still counting)
- Flexible at low temperatures
- Zero halogen
- Contains no heavy metals or phthalates

### Flammability

- IEC 60332-1 Flame Behavior
- IEC 60332-2 Flame Behavior
- IEC 60754-2 Acid Gas Generation

### Additional Approvals

- UL Oil Res I
- UL Sunlight Resistant
- IEC 60228 Class 6
- EU Low Voltage Directive 2006/95/EC

### Availability

100 ft (30.5 m) put-up in stock  
 Bulk (Min. 1000 ft (305 m))

### FIT® Tubing Recommendations

#### 14 AWG (2.11 mm²)

Stranding: 105/34 (105 x 0.16 mm)  
 Insulation thickness: 0.013 (0.33 mm)  
 Jacket thickness: 0.032 (0.81 mm)

Part Number	Conductors	Nominal Diameter	
		Inch	mm
80150	3	0.303	7.70
80151	4	0.329	8.36
80152	5	0.357	9.07
80153	7	0.386	9.80
80154	9	0.483	12.27
80155	12	0.501	12.73
80156*	18	0.626	15.90
80157*	25	0.727	18.47

\*0.053 (1.35 mm) jacket thickness

#### 12 AWG (3.38 mm²)

Stranding: 168/34 (168 x 0.16 mm)  
 Insulation thickness: 0.015 (0.38 mm)  
 Jacket thickness: 0.032 (0.81 mm)

Part Number	Conductors	Nominal Diameter	
		Inch	mm
80158	3	0.385	9.78
80159	4	0.421	10.69
80160	5	0.460	11.68
80161	7	0.507	12.88
80162	9	0.676	17.17

\*0.053 (1.35 mm) jacket thickness

#### 10 AWG (5.21 mm²)

Stranding: 259/34 (259 x 0.16 mm)  
 Insulation thickness: 0.020 (0.51 mm)  
 Jacket thickness: 0.053 (1.35 mm)

Part Number	Conductors	Nominal Diameter	
		Inch	mm
80163	3	0.509	12.93
80164	4	0.562	14.27
80165	5	0.611	15.52
80166	7	0.644	16.36

- FIT-221L: Low smoke zero halogen
- FIT Spiral Wrap: Zero-halogen wrap simplifies wire harnessing, cabling, and bundling



# EcoWire® 600 V

## mPPE Hook-Up Wire



Innovative EcoWire combines increased performance with a minimized environmental impact.

Compared to PVC wire, EcoWire's mPPE insulation allows wire that is:

- Up to 45% smaller in diameter
- Up to 40% lighter
- Zero halogen, with no heavy metal pigments
- 100% recyclable

### Temperature Range

- 40°C to +105°C (EcoWire)
- 40°C to +110°C (EcoWire Plus)

### Materials

- Stranded or solid tinned copper conductors
- mPPE insulation

### Approvals

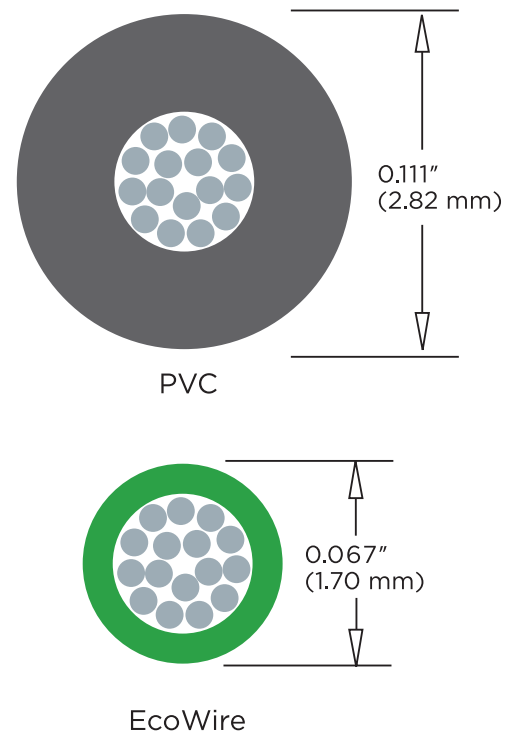
- UL AWM 11028 VW-1
- CSA AWM I A/B FT1
- IEC 60332-2 Flame Behavior
- RoHS Compliant
- REACH Compliant
- Zero Halogen
- CE Compliant

### Availability

- 100 ft (30.5 m)
- 1000 ft (305 m)
- 5000 ft (1524 m)
- 25,000 ft (7620 m) drum



### 18 AWG (0.82 mm<sup>2</sup>) Wire



### EcoWire

Part No.	Conductor Size		Stranding		Insulation Thickness		Wire Diameter	
	AWG	mm <sup>2</sup>	AWG	mm	Inch	mm	Inch	mm
6710	28	0.08	7/36	7 x 0.12	0.010	0.25	0.034	0.86
6711	26	0.13	7/34	7 x 0.16	0.010	0.25	0.038	0.97
6712	24	0.20	7/32	7 x 0.20	0.010	0.25	0.043	1.09
6713	22	0.32	7/30	7 x 0.25	0.010	0.25	0.049	1.24
6714	20	0.52	10/30	10 x 0.25	0.010	0.25	0.055	1.40
6715	18	0.82	16/30	16 x 0.25	0.010	0.25	0.067	1.70
6715S	18	0.82	Solid	Solid	0.010	0.25	0.059	1.50
6716	16	1.30	26/30	26 x 0.25	0.011	0.28	0.081	2.06
6717	14	2.08	41/30	41 x 0.25	0.011	0.28	0.096	2.44
6717S	14	2.08	Solid	Solid	0.011	0.28	0.086	2.18
6718	12	3.30	65/30	65 x 0.25	0.012	0.30	0.117	2.97
6719	10	5.26	105/30	105 x 0.25	0.012	0.30	0.142	3.66

White, Black, Red, Green, Yellow, Blue, Brown, Orange, Slate, Violet, Yellow/Green, Dark Blue



# EcoWire Metric specifications



## EcoWire Metric

### Materials

Conductors Stranded or solid tinned copper  
 Insulation Modified polyphenylene ether

### Electrical

Voltage 600 volts

### Physical and Mechanical

Temperature Range -40°C to +105°C

### Availability

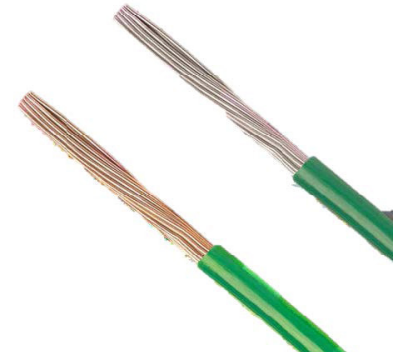
100 ft (30.5 m), 1000 ft (305 m), 5000 ft (1525 m), and 25,000 ft (7625 m) lengths  
 14 AWG and smaller is also available in 5000 ft Reel and 25,000 ft Drum

### Approvals

CSA AWM I A/B FT1  
 UL AWM 11028  
 UL VW-1  
 C(RU)  
 CE  
 IEC 60332-2  
 RoHS compliant  
 Reach compliant

### Colors

White, Black, Red, Green, Yellow, Blue, Brown, Orange, Slate, Violet, Yellow/Green, Dark Blue



Part No.	Voltage	Size	Stranding	Insulation Thickness	Nominal Diameter	Insulation Material
		mm <sup>2</sup>	mm	mm	mm	
67025	28	0.07	32/.10	0.31	0.65	MPPE
67050	26	0.14	28/.16	0.31	0.97	MPPE
67075	24	0.22	42/.16	0.31	1.20	MPPE
67010	22	0.35	56/.16	0.31	1.38	MPPE
67015	20	0.51	84/.16	0.31	1.69	MPPE
67250	18	0.81	140/.16	0.31	2.18	MPPE



# EcoWire® Plus 300 V

## Fluid-Resistant mPPE Hook-Up Wire



EcoWire Plus offers all the benefits of EcoWire, plus higher temperature range and additional fluid resistance for demanding factory applications.

Compared to PVC wire, EcoWire's mPPE insulation allows wire that is:

- Up to 45% smaller in diameter
- Up to 40% lighter
- Zero halogen, with no heavy metal pigments
- 100% recyclable

### Temperature Range

- 40°C to + 105°C (EcoWire)
- 40°C to + 110°C (EcoWire Plus)

### Materials

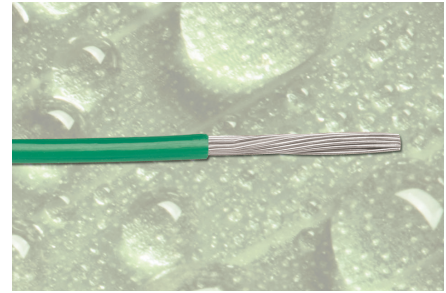
- Stranded or solid tinned copper conductors
- mPPE insulation

### Approvals

- IEC 60332-2 Flame Behavior
- RoHS Compliant
- REACH Compliant
- Zero Halogen
- CE Compliant
- Suitable for ISO 6722

### Availability

- 100 ft (30.5 m)
- 1000 ft (305 m)
- 5000 ft (1524 m)
- 25,000 ft (7620 m) drum



### EcoWire Plus

Part No.	Conductor Size			Stranding		Insulation Thickness		Wire Diameter	
	AWG	mm <sup>2</sup>	ISO mm Equiv.	AWG	mm	Inch	mm	Inch	mm
<b>6820</b>	28	0.09	—	7/36	7 x 0.12	0.008	0.20	0.031	0.79
<b>6821</b>	26	0.14	0.13	7/34	7 x 0.16	0.008	0.20	0.035	0.89
<b>6822</b>	24	0.23	0.22	7/32	7 x 0.20	0.008	0.20	0.040	1.02
<b>6823</b>	22	0.35	0.35	7/30	7 x 0.25	0.008	0.20	0.046	1.17
<b>6824</b>	20	0.56	0.5	7/28	7 x 0.32	0.008	0.20	0.054	1.37
<b>6825</b>	18	0.81	0.75	19/0.0092	19 x 0.23	0.008	0.20	0.062	1.57
<b>6826</b>	17	0.96	1	19/30	19 x 0.25	0.008	0.20	0.066	1.68
<b>6827</b>	16	1.23	—	19/29	19 x 0.29	0.010	0.24	0.077	1.96
<b>6828</b>	15	1.53	1.5	19/28	19 x 0.32	0.010	0.24	0.083	2.11
<b>6829</b>	14	1.94	2	19/27	19 x 0.36	0.012	0.30	0.095	2.41
<b>6830</b>	12	3.08	3	19/25	19 x 0.46	0.015	0.38	0.120	3.05
<b>6831</b>	10	4.92	5	19/23	19 x 0.57	0.017	0.43	0.147	3.73

White, Black, Red, Green, Yellow, Blue, Brown, Orange, Green/Yellow



# Conductor Color Coding



## Multipair Cables

Chart A				Chart B			
Pair No.	Color Combination	Pair No.	Color Combination	Pair No.	Color Combination	Pair No.	Color Combination
1	Black + Red	14	Green + Blue	1	White + Black	14	Black + Green
2	Black + White	15	Green + White	2	White + Brown	15	Black + Blue
3	Black + Green	16	Green + Brown	3	White + Red	16	Black + Violet
4	Black + Blue	17	Green + Orange	4	White + Orange	17	Black + Slate
5	Black + Brown	18	Green + Yellow	5	White + Yellow	18	Brown + Red
6	Black + Yellow	19	White + Blue	6	White + Green	19	Brown + Orange
7	Black + Orange	20	White + Brown	7	White + Blue	20	Brown + Yellow
8	Red + Green	21	White + Orange	8	White + Violet	21	Brown + Green
9	Red + White	22	White + Yellow	9	White + Slate	22	Brown + Blue
10	Red + Blue	23	Blue + Brown	10	Black + Brown	23	Brown + Violet
11	Red + Yellow	24	Blue + Orange	11	Black + Red	24	Brown + Slate
12	Red + Brown	25	Blue + Yellow	12	Black + Orange	25	Red + Orange
13	Red + Orange			13	Black + Yellow		

## Multiconductor Cables

Chart D			
No.	Base Color	1st Stripe	2nd Stripe
1	Black		
2	Red		
3	White		
4	Green		
5	Orange		
6	Blue		
7	Brown		
8	Yellow		
9	Violet		
10	Slate		
11	Pink		
12	Tan		
13	Red	Green	
14	Red	Yellow	
15	Red	Black	
16	White	Black	
17	White	Red	
18	White	Green	
19	White	Yellow	
20	White	Blue	
21	White	Brown	
22	White	Orange	
23	White	Slate	
24	White	Violet	
25	White	Black	Red
26	White	Black	Green
27	White	Black	Yellow
28	White	Black	Blue
29	White	Black	Brown
30	White	Black	Orange
31	White	Black	Slate
32	White	Black	Violet
33	White	Black	Black
34	White	Red	Black
35	White	Red	Red
36	White	Red	Green

## Multiconductor Cables

Chart E			
No.	Base Color	1st Stripe	2nd Stripe
1	Black		
2	Brown		
3	Red		
4	Orange		
5	Yellow		
6	Green		
7	Blue		
8	Violet		
9	Slate		
10	White		
11	White	Black	
12	White	Brown	
13	White	Red	
14	White	Orange	
15	White	Yellow	
16	White	Green	
17	White	Blue	
18	White	Violet	
19	White	Slate	
20	White	Black	Brown
21	White	Black	Red
22	White	Black	Orange
23	White	Black	Yellow
24	White	Black	Green
25	White	Black	Blue









## Cables you trust. Service you deserve.

Every application is critical and cable failure is not an option when the safety of equipment and personnel is paramount. Specify Alpha Wire cable for rugged, reliable performance, since the integrity of your system is only as robust as the products you use.

## Custom cable is standard

Alpha Wire goes one step further: manufacturing custom cables to meet unique applications—offering specific conductor counts, shielding options, jacket materials, and versatile product designs. Our custom cable orders are often shipped in less than a week, once again giving you products with more convenience and less delay.

## Service and support, second-to-none

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 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)**!

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