# EcoGen™
# Wire and Cable

AlphaWire

*Cables you trust. Service you deserve.*

# 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

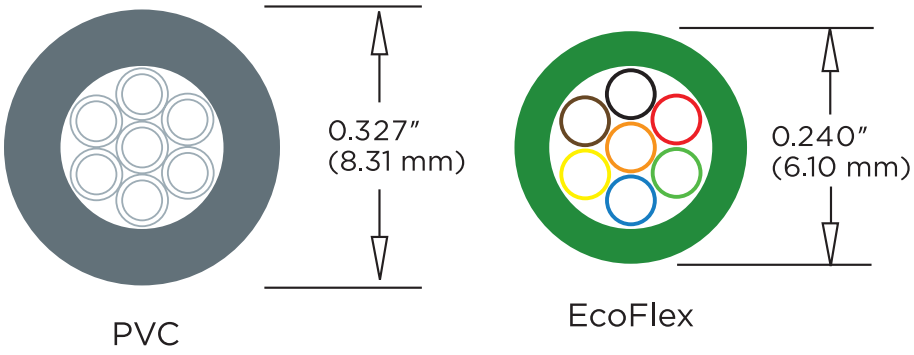
**Configurations**

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

**Approvals**

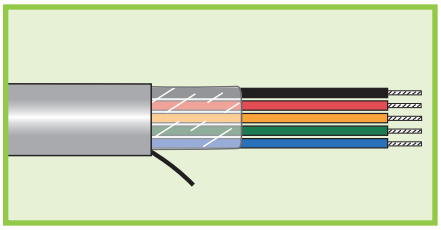
- UL AWM 21819 (600 V, 105°C)
- UL AWM 21492 (300 V, 80°C)
- CE
- UL VW-1
- CSA AWM I/II A/B FT1
- IEC 60332-2 Flame Behavior
- RoHS
- REACH
- WEEE
- Suitable for use in NFPA 79 applications
- ISO 10993-5

### 20 AWG (0.51 mm²) 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 |

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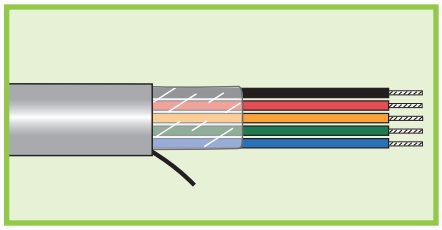
Specifications subject to change. For complete specifications and availability, visit www.alphawire.com.

# 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 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 |
| **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 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 |
| **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 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 |
| **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 |

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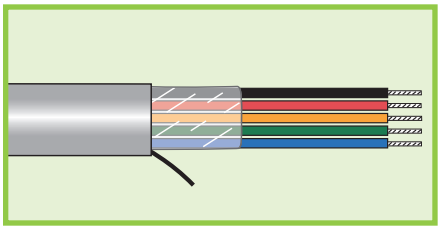
# EcoFlex® Cable

## 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 |

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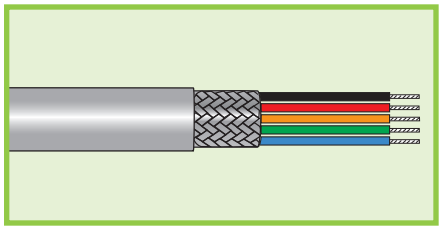
# EcoFlex® Cable

## 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

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**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 |
| **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 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 |
| **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 |

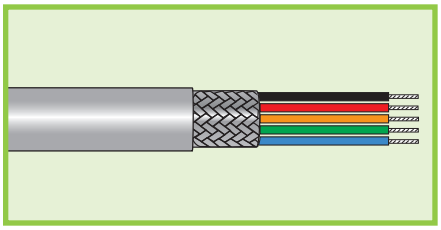
**16 AWG (1.32 mm²)**

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 |
| **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

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**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 |
| **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 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 |
| **79126** | 3 | 0.354 | 8.99 |
| **79127** | 4 | 0.386 | 9.80 |


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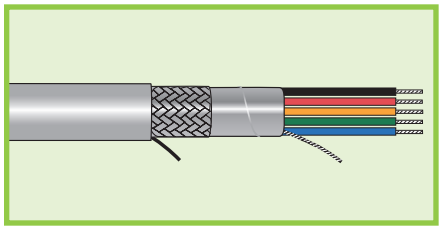
# EcoFlex® Cable

## 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

**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 |
| **79261** | 2 | 0.174 | 4.42 |
| **79262** | 3 | 0.179 | 4.55 |

**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 |
| **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 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 |
| **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 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 |
| **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 |

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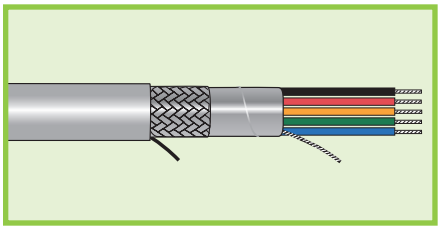
# EcoFlex® Cable

## 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 |

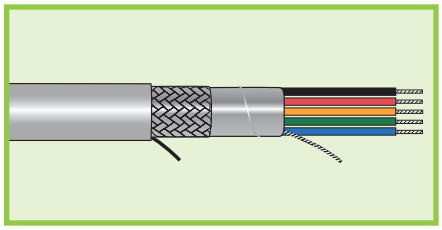
RoHS Compliant CA PROP 65



Specifications subject to change. For complete specifications and availability, visit www.alphawire.com.

# 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

**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 |
| **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 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 |
| **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 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 |
| **79236** | 3 | 0.419 | 10.64 |
| **79237** | 4 | 0.457 | 11.61 |

RoHS Compliant CA PROP 65

# Conductor Color Coding

## Multipair Cables

**Chart A**

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

**Chart B**

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

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