



Cable Products

Product Features:

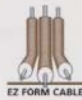
- Two series of solid-jacketed semi-rigid (copper and aluminum), and two series of hand-formable cables: EZFlex™ (flexible) and EZFlex Formable™ (featuring a tinned braid outer conductor for 100% shielding)—a type to suit virtually every high-frequency requirement.
- Impedance tolerances as low as $\pm 1/2\Omega$.
- Minimum VSWR.
- Smooth attenuation vs. frequency curve.
- Easily formed; EZFlex cable withstands repeated flexing better than standard semi-rigid.
- Small size permits use in high-density applications.
- Light weight; EZ Form aluminum cable is 40% lighter than equivalent copper cable.
- Easy stripping, tinning, and soldering for convenient cabling.
- Minimum change in impedance and attenuation over temperature extremes.
- Minimum electrical length variation with temperature change.
- Sizes available from .034" to .500" outer conductor diameter.
- Lengths in excess of 150 feet.
- Any cable in this catalog is available as a "complete" cable assembly manufactured to your custom specifications with your choice of connectors and testing to your requirements. Phase Matching of assemblies is available to within 1 degree per GHz.
- Delay Lines are a specialty of EZ Form where we custom design them to your requirements while shaping them into almost any configuration required. Delay tolerance of $\pm 20\text{pS}$ are achieved.



Cable assembly and delay line manufacturing is a highly-developed art at EZ Form.



Our fully-equipped lab can perform comprehensive electrical testing from DC-40Ghz, along with a wide range of mechanical and environmental testing.



Copper-Jacketed

See page 8 for MIL-C-17 QPL Items

Part Number	Nominal Impedance (Ω)	Outer Conductor Diameter inches (mm)	Dielectric Diameter inches (mm)	Center Conductor Diameter inches (mm)
EZ 34	50.0 ±3.0	.034 (.86)	.026 (.66)	.008 (.20)
EZ 34-TP	50.0 ±3.0	.034 (.86)*	.026 (.66)	.008 (.20)
EZ 47/M17	50.0 ±2.5	.047 (1.19)	.037 (.94)	.0113 (.29)
EZ 47-TP/M17	50.0 ±2.5	.047 (1.19)*	.037 (.94)	.0113 (.29)
EZ 47-SP	50.0 ±2.5	.047 (1.19)*	.037 (.94)	.0113 (.29)
EZ 47-Cu	50.0 ±2.5	.047 (1.19)	.037 (.94)	.0113 (.29)
EZ 47-Cu-TP	50.0 ±2.5	.047 (1.19)*	.037 (.94)	.0113 (.29)
EZ 47-Cu-SP	50.0 ±2.5	.047 (1.19)*	.037 (.94)	.0113 (.29)
EZ 47-LA	50.0 ±2.5	.047 (1.19)	.037 (.94)	.0126 (.320)
EZ 47-LA-TP	50.0 ±2.5	.047 (1.19)*	.037 (.94)	.0126 (.320)
EZ 86/M17	50.0 ±1.5	.0865 (2.20)	.066 (1.676)	.0201 (.511)
EZ 86-SJ/M17	50.0 ±1.5	.0865 (2.20)	.066 (1.676)	.0201 (.511)
EZ 86-TP/M17	50.0 ±1.5	.0865 (2.20)*	.066 (1.676)	.0201 (.511)
EZ 86-SJ-TP/M17	50.0 ±1.5	.0865 (2.20)*	.066 (1.676)	.0201 (.511)
EZ 86-SP	50.0 ±1.5	.0865 (2.20)*	.066 (1.676)	.0201 (.511)
EZ 86-Cu/M17	50.0 ±1.5	.0865 (2.20)	.066 (1.676)	.0201 (.511)
EZ 86-Cu-SJ/M17	50.0 ±1.5	.0865 (2.20)	.066 (1.676)	.0201 (.511)
EZ 86-Cu-TP/M17	50.0 ±1.5	.0865 (2.20)*	.066 (1.676)	.0201 (.511)
EZ 86-Cu-TP-SJ/M17	50.0 ±1.5	.0865 (2.20)*	.066 (1.676)	.0201 (.511)
EZ 86-75	75.0 ±2.0	.0865 (2.20)	.066 (1.676)	.0113 (.29)
EZ 86-75-TP	75.0 ±2.0	.0865 (2.20)*	.066 (1.676)	.0113 (.29)
EZ 86-LA	50.0 ±1.5	.0865 (2.20)	.066 (1.676)	.0226 (.57)
EZ 86-LA-TP	50.0 ±1.5	.0865 (2.20)*	.066 (1.676)	.0226 (.57)
EZ 90-25-Cu	25.0 ±2.0	.090 (2.29)	.073 (1.85)	.0403 (1.02)
EZ 90-25-Cu-TP	25.0 ±2.0	.090 (2.29)*	.073 (1.85)	.0403 (1.02)
EZ 141/M17	50.0 ±1.0	.141 (3.58)	.1175 (2.98)	.0362 (.92)
EZ 141-SJ/M17	50.0 ±1.0	.141 (3.58)	.1175 (2.98)	.0362 (.92)
EZ 141-TP/M17	50.0 ±1.0	.141 (3.58)*	.1175 (2.98)	.0362 (.92)
EZ 141-TP-SJ/M17	50.0 ±1.0	.141 (3.58)*	.1175 (2.98)	.0362 (.92)
EZ 141-SP	50.0 ±1.0	.141 (3.58)*	.1175 (2.98)	.0362 (.92)
EZ 141-Cu	50.0 ±1.0	.141 (3.58)	.1175 (2.98)	.0362 (.92)
EZ 141-Cu-TP	50.0 ±1.0	.141 (3.58)*	.1175 (2.98)	.0362 (.92)
EZ 141-Cu-SP	50.0 ±1.0	.141 (3.58)*	.1175 (2.98)	.0362 (.92)
EZ 141-70	70.0 ±2.0	.141 (3.58)	.107 (2.72)	.0201 (.51)
EZ 141-70-TP	70.0 ±2.0	.141 (3.58)*	.107 (2.72)	.0201 (.51)
EZ 141-75	75.0 ±2.0	.141 (3.58)	.117 (2.97)	.0201 (.51)
EZ 141-75-TP	75.0 ±2.0	.141 (3.58)*	.117 (2.97)	.0201 (.51)
EZ 141-75-SP	75.0 ±2.0	.141 (3.58)*	.117 (2.97)	.0201 (.51)
EZ 141-75-Cu	75.0 ±2.0	.141 (3.58)	.117 (2.97)	.0201 (.51)
EZ 141-LA	50.0 ±1.0	.141 (3.58)	.118 (3.00)	.0403 (1.02)
EZ 141-LA-TP	50.0 ±1.0	.141 (3.58)*	.118 (3.00)	.0403 (1.02)
EZ 250/M17	50.0 ±0.5	.250 (6.35)	.209 (5.31)	.0641 (1.63)
EZ 250-TP/M17	50.0 ±0.5	.250 (6.35)*	.209 (5.31)	.0641 (1.63)
EZ 250-SP	50.0 ±0.5	.250 (6.35)*	.209 (5.31)	.0641 (1.63)
EZ 250-WP	50.0 ±1.0	.250 (6.35)	.209 (5.31)	.081 (2.06)
EZ 250-WP-TP	50.0 ±1.0	.250 (6.35)*	.209 (5.31)	.081 (2.06)
EZ 325	50.0 ±1.0	.325 (8.26)	.285 (7.24)	***
EZ 325-TP	50.0 ±1.0	.325 (8.26)*	.285 (7.24)	***

Notes

* Allow additional +.001" for plating.
 ** Contact factory for theoretical electrical parameters of non-50Ω cables.
 *** Stranded center conductor: 7 x .0132" (7 x .79 mm).
 † These cables meet the requirements of both MIL-C-17 types shown.
 Dimensional stability: .015/.038 max @ 125 °C.

Key to Materials

LA: Low Attenuation • **TP:** Tin Plated. • **SJ:** Soft Jacket.
SP: Silver plated. • **SPC:** Silver-plated Copper.
SPCW: Silver-plated Copper-clad steel.
Outer Conductor: Copper per ASTM B88 or ASTM B447.
Dielectric: Teflon TFE per ASTM-D-1457.
Silver Plating: ASTM B700.
Tin Plating: ASTM B545.

Electrical Specifications

Velocity of Propagation: 69.5% for standard cables;
 76.5% for LA; 84.5% for WP

Temperature Range:

See page 8 for Temperature Ranges.