



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 \pm 3.0	.034 (.86)	.026 (.66)	.008 (.20)
EZ 34-TP	50.0 \pm 3.0	.034 (.86)*	.026 (.66)	.008 (.20)
EZ 47/M17	50.0 \pm 2.5	.047 (1.19)	.037 (.94)	.0113 (.29)
EZ 47-TP/M17	50.0 \pm 2.5	.047 (1.19)*	.037 (.94)	.0113 (.29)
EZ 47-SP	50.0 \pm 2.5	.047 (1.19)*	.037 (.94)	.0113 (.29)
EZ 47-Cu	50.0 \pm 2.5	.047 (1.19)	.037 (.94)	.0113 (.29)
EZ 47-Cu-TP	50.0 \pm 2.5	.047 (1.19)*	.037 (.94)	.0113 (.29)
EZ 47-Cu-SP	50.0 \pm 2.5	.047 (1.19)*	.037 (.94)	.0113 (.29)
EZ 47-LA	50.0 \pm2.5	.047 (1.19)	.037 (.94)	.0126 (.320)
EZ 47-LA-TP	50.0 \pm2.5	.047 (1.19)*	.037 (.94)	.0126 (.320)
EZ 86/M17	50.0 \pm 1.5	.0865 (2.20)	.066 (1.676)	.0201 (.511)
EZ 86-SJ/M17	50.0 \pm 1.5	.0865 (2.20)	.066 (1.676)	.0201 (.511)
EZ 86-TP/M17	50.0 \pm 1.5	.0865 (2.20)*	.066 (1.676)	.0201 (.511)
EZ 86-SJ-TP/M17	50.0 \pm 1.5	.0865 (2.20)*	.066 (1.676)	.0201 (.511)
EZ 86-SP	50.0 \pm 1.5	.0865 (2.20)*	.066 (1.676)	.0201 (.511)
EZ 86-Cu/M17	50.0 \pm 1.5	.0865 (2.20)	.066 (1.676)	.0201 (.511)
EZ 86-Cu-SJ/M17	50.0 \pm 1.5	.0865 (2.20)	.066 (1.676)	.0201 (.511)
EZ 86-Cu-TP/M17	50.0 \pm 1.5	.0865 (2.20)*	.066 (1.676)	.0201 (.511)
EZ 86-Cu-TP-SJ/M17	50.0 \pm 1.5	.0865 (2.20)*	.066 (1.676)	.0201 (.511)
EZ 86-75	75.0 \pm 2.0	.0865 (2.20)	.066 (1.676)	.0113 (.29)
EZ 86-75-TP	75.0 \pm 2.0	.0865 (2.20)*	.066 (1.676)	.0113 (.29)
EZ 86-LA	50.0 \pm1.5	.0865 (2.20)	.066 (1.676)	.0226 (.57)
EZ 86-LA-TP	50.0 \pm1.5	.0865 (2.20)*	.066 (1.676)	.0226 (.57)
EZ 90-25-Cu	25.0 \pm 2.0	.090 (2.29)	.073 (1.85)	.0403 (1.02)
EZ 90-25-Cu-TP	25.0 \pm 2.0	.090 (2.29)*	.073 (1.85)	.0403 (1.02)
EZ 141/M17	50.0 \pm 1.0	.141 (3.58)	.1175 (2.98)	.0362 (.92)
EZ 141-SJ/M17	50.0 \pm 1.0	.141 (3.58)	.1175 (2.98)	.0362 (.92)
EZ 141-TP/M17	50.0 \pm 1.0	.141 (3.58)*	.1175 (2.98)	.0362 (.92)
EZ 141-TP-SJ/M17	50.0 \pm 1.0	.141 (3.58)*	.1175 (2.98)	.0362 (.92)
EZ 141-SP	50.0 \pm 1.0	.141 (3.58)*	.1175 (2.98)	.0362 (.92)
EZ 141-Cu	50.0 \pm 1.0	.141 (3.58)	.1175 (2.98)	.0362 (.92)
EZ 141-Cu-TP	50.0 \pm 1.0	.141 (3.58)*	.1175 (2.98)	.0362 (.92)
EZ 141-Cu-SP	50.0 \pm 1.0	.141 (3.58)*	.1175 (2.98)	.0362 (.92)
EZ 141-70	70.0 \pm 2.0	.141 (3.58)	.107 (2.72)	.0201 (.51)
EZ 141-70-TP	70.0 \pm 2.0	.141 (3.58)*	.107 (2.72)	.0201 (.51)
EZ 141-75	75.0 \pm 2.0	.141 (3.58)	.117 (2.97)	.0201 (.51)
EZ 141-75-TP	75.0 \pm 2.0	.141 (3.58)*	.117 (2.97)	.0201 (.51)
EZ 141-75-SP	75.0 \pm 2.0	.141 (3.58)*	.117 (2.97)	.0201 (.51)
EZ 141-75-Cu	75.0 \pm 2.0	.141 (3.58)	.117 (2.97)	.0201 (.51)
EZ 141-LA	50.0 \pm1.0	.141 (3.58)	.118 (3.00)	.0403 (1.02)
EZ 141-LA-TP	50.0 \pm1.0	.141 (3.58)*	.118 (3.00)	.0403 (1.02)
EZ 250/M17	50.0 \pm 0.5	.250 (6.35)	.209 (5.31)	.0641 (1.63)
EZ 250-TP/M17	50.0 \pm 0.5	.250 (6.35)*	.209 (5.31)	.0641 (1.63)
EZ 250-SP	50.0 \pm 0.5	.250 (6.35)*	.209 (5.31)	.0641 (1.63)
EZ 250-WP	50.0 \pm1.0	.250 (6.35)	.209 (5.31)	.081 (2.06)
EZ 250-WP-TP	50.0 \pm1.0	.250 (6.35)*	.209 (5.31)	.081 (2.06)
EZ 325	50.0 \pm 1.0	.325 (8.26)	.285 (7.24)	***
EZ 325-TP	50.0 \pm 1.0	.325 (8.26)*	.285 (7.24)	***

Notes

* Allow additional +.001" for plating.
 ** Contact factory for theoretical electrical parameters of non-50 Ω 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.