

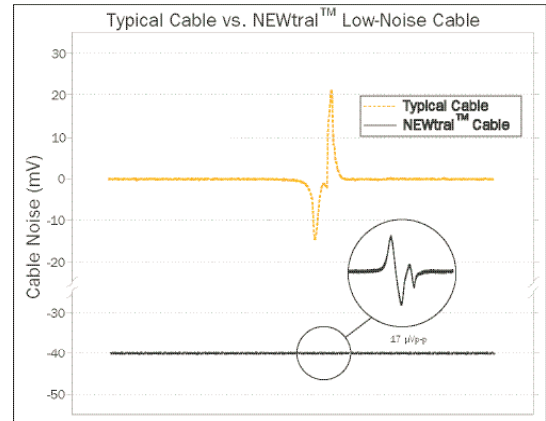
NEWtral® LOW-NOISE CABLES

TECHNICAL INFORMATION

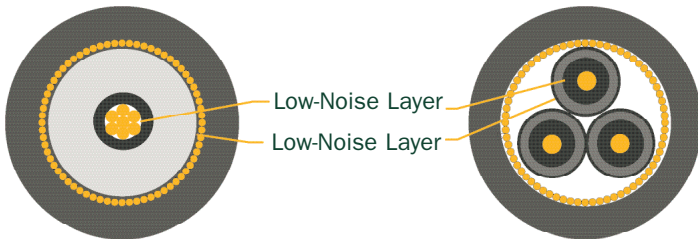
In small signal applications, noise-free transmission lines are necessary to maintain signal integrity. Simply flexing or twisting a traditional cable can generate voltage spikes with magnitudes in the tens of millivolts. This noise is due to triboelectric charging of the insulator materials, which act as capacitors and store the charge. The addition of conductive low-noise layers reduces this noise to the microvolt range.

New England Wire Technologies has specifically developed a range of advanced low-noise cables designed to neutralize noise generated by mechanical shock and vibration and maximize signal quality.

Typical applications include medical equipment, test and measurement equipment, charge amplifiers, vibration analyzers and oscilloscopes.



NEWtral® Type 1



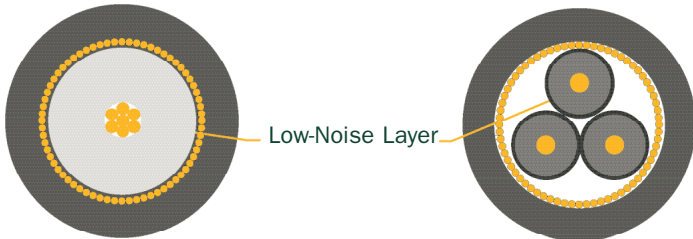
Advantage:

Excellent performance (10 μ V - 100 μ V)

Consideration:

Increase in primary diameter (.010"-.020")

NEWtral® Type 2



Advantage:

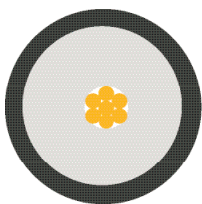
Very good performance (25 μ V - 250 μ V)

Consideration:

Low cost

Outer Low-Noise Layer Options

Extruded



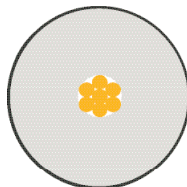
Advantage:

- *Can be stripped mechanically.
- *Low cost

Consideration:

- *Diameter increase (.010-.020")

Coated



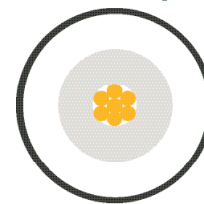
Advantage:

- *No diameter increase.
- *Low Cost

Consideration:

- *Must be chemically stripped

EZ- Strip



Advantage:

- *Can be stripped mechanically.
- *No diameter increase.

Consideration:

- *Higher Cost

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