



Glossary

Tefzel Registered trademark of the DuPont Company. Ethylene tetrafluoroethylene (ETFE), is a 150°C rated Fluoropolymer that can be used for insulation and jacket applications.

Temperature Rating The maximum temperature at which the insulating material may be used in continuous operation with a loss of 50% of its original properties.

Tensile-Flex Trademark for Phelps Dodge Alloy 135 high strength copper alloy.

Tinned Wire Copper wire that has been coated with a layer of tin or solder to facilitates soldering.

Tinsel Wire A low voltage, stranded wire where each strand is a very thin conductor ribbon spirally wrapped around a textile yarn.

Tolerance A specified allowance for deviation from a standard dimension, weight, or property.

Triboelectric Noise Noise generated in a shielded cable due to movement between the components as the cable is flexed.

Twisted Pair A cable composed of two insulated conductors, twisted together without a common covering.

UHF Ultra High Frequency

UL Underwriters Laboratories, Inc.

Unbalanced Line A transmission line in which voltages on the two conductors are unequal with respect to ground. An example is coaxial cable.

Unidirectional Concentric Stranding A stranding where each successive layer has a different lay length, thereby retaining a circular form without migration of strands from one layer to another.

Unidirectional Stranding A term denoting that in a stranded conductor all layers have the same direction of lay.

Unilay Strand A conductor constructed with a central core surrounded by more than one layer of helically-laid wires, with all layers having a common length and direction of lay.

Velocity of Propagation The transmission speed of an electrical signal down a length of cable compared to speed in free space. This is usually expressed as a percentage.

Voltage Drop The amount of voltage loss from original input in a conductor of given size and length.

Voltage Rating The highest voltage that may be continuously applied to a wire or cord in conformance with standards or specifications.

Volume Resistivity (Specific Insulation Resistance) The electrical resistance between opposite faces of a 1-cm cube of insulating material, commonly expressed in ohm-centimeters.

Wall Thickness A term used that expresses the thickness of a layer of applied insulation or jacket.

Wire Gauge A system of numerical designations of wire sizes. See American Wire Gauge (AWG).

Z Designation for impedance, expressed in ohms.