Glossary

LOGGING CABLE — Usually FEP/Tefzel self-supporting instrumentation cable. Generally dropped through borings in subsurface mining or well applications.

LONGITUDINAL SHIELD — A tape shield, flat or corrugated, applied longitudinally with the axis of the cable.

LONGITUDINAL SHRINKAGE — A term generally applied to shrink products denoting the axial length lost through heating in order to obtain the recovered diameter.

LONGITUDINAL WRAP — Tape applied longitudinally with the axis of the core being covered.

LONGWALL MACHINE — A mining machine used to undercut coal.

LOOP RESISTANCE — The total resistance of two conductors measured round trip from one end. Commonly used term in the thermocouple industry.

LOOP TEST — A long line test where a good line is connected to a faulty line to form a loop in which measurements will locate the fault.

LOSS — The portion of energy applied to a system that is dissipated and performs no useful work.

LOSS FACTOR — The power factor times the dielectric constant.

LOW BOND INSULATION — An insulation that exhibits a small bond strength to the conductors.

LOW FREQUENCY — A band of frequencies extending from 30 to 300 kHz in the radio spectrum, designated by the Federal Communications Commission.

LOW LOSS DIELECTRIC — An insulating material that has a relatively low dielectric loss, such as polyethylene or Teflon.

LOW NOISE CABLE — A cable specially constructed to eliminate spurious electrical disturbances caused by capacitance changes or self-generated noise induced by either physical movement or adjacent circuitry.

LOW TENSION — Low voltage, as applied to ignition cable.

LOW VOLTAGE — (1) As defined in the National Electrical Code, a system rated nominal 24 volts or less, supplied from a transformer, converter, or battery, (2) A power system voltage rating of 1,000 Volts or less.

LPF — Low Pass Filter. A filter which greatly attenuates signals of higher than a specified frequency, but passes with minimal attenuation all signals lower in frequency.

LUMEN — A unit of measurement for light output.

LV — Low Voltage.

N

mA — Milliampere (one-thousandth of an ampere).

MAGNET WIRE — Insulated wire used in the windings of motors, transformers, and other electromagnetic devices.

MAGNETIC FIELD — The field created when current flows through a conductor, especially a coiled conductor.

MAP — Manufacturing Automation Protocol. The OSI profile championed by General Motors Corporation to provide interconnectivity between plant hosts, area managers and cell controllers over a broadband token-passing bus network.

MARKER TAPE — A tape laid parallel to the conductors under the sheath in a cable, imprinted with the manufacturer's name and the specification to which the cable is made.

MARKER THREAD — A colored thread laid parallel and adjacent to the strand in an insulated conductor which identifies the manufacturer and sometimes the specification to which the wire is made.

MASTIC — A meltable coating used on the inside of some shrink products which when heated flows to help create a waterproof seal.

MATV — Master Antenna Television System. A combination of components providing multiple television receiver operations from one antenna or group of antennas.

MAXIMUM CABLE DIAMETER — The largest cable diameter that a high-voltage cable termination is designed to accommodate.

MINIMUM CABLE DIAMETER — The smallest cable diameter that a high-voltage cable termination is designed to accommodate.

MAXIMUM DESIGN VOLTAGE — The maximum voltage at which a high-voltage cable termination is designed to operate continuously under normal conditions.

MC — (1) Main cross-connect, (2) A UL cable type (metal clad).

MECHANICAL WATER ABSORPTION — A check of how much water will be absorbed by material in warm water for seven days (mg/sq. in. surface).

MEDIUM FREQUENCY — The band of frequencies between 300 and 3,000 kilohertz.

MEDIUM-HARD DRAWN WIRE — As applied to copper wire, having tensile strength less than the minimum for hard-drawn wire, but greater than the maximum for soft wire.

MEDIUM VOLTAGE — A class of nominal power system voltage ratings from 2 kV up to 69 kV.

MEGA - Prefix meaning million.

MEGAHERTZ (MHz) — One million cycles per second.

MEGGER — A special ohmmeter for measuring very high resistance. Primarily used for checking the insulation resistance of cables, however, it is also useful for equipment leakage tests.

MELT INDEX — The extrusion rate of a material through a specified orifice under specified conditions.

MEMBER — A group of wires stranded together which is in turn stranded into a multiple-membered conductor.

MESSENGER WIRE — A metallic supporting member either solid or stranded which may also perform the function of a conductor.

MFD — Microfarad (one-millionth of a farad). Obsolete abbreviation.

MFT -- Abbreviation for 1,000 feet.

MG — Glass reinforced mica tape insulated cable with an overall sheath of woven glass yarn impregnated with a flame, heat and moisture resistant finish. 450°C, 600 V appliance wire.

MHO — The unit of conductivity. The reciprocal of an ohm.

MHz — Megahertz (one million cycles per second).

MI — A UL cable type. One or more conductors insulated with highly compressed refractory minerals and enclosed in a liquid-tight and gas-tight metallic tube sheathing.

MICA — A transparent silicate which separates into layers and has high insulation resistance, high dielectric strength, and high heat resistance.

