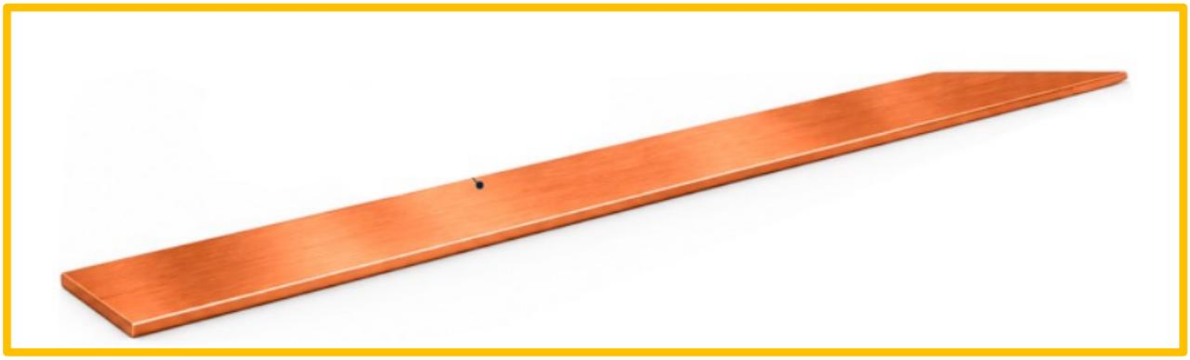
COPPER SHEET / PLATE FOR ENGINE SYSTEM
LAND

High conductivity copper sheet/plate designed for interconnection and equipotential distribution in grounding systems (SPT).



FEATURE	TECHNICAL SPECIFICATION
Product	Electrolytic Copper Plate / Strip
Material	Copper C11000 (ETP - Electrolytic Tough Pitch) 99.9% purity
Nominal width	25 mm (approx. 1 inch)
Nominal thickness	2 mm
Electrical conductivity	100% IACS (International Annealed Copper Standard)
Surface finish	Polished / pickled without burrs
Connections and Fixing	Suitable for drilling with stainless steel screws or joining by exothermic welding
Applications	Equipotentialization of structures, interconnection of lightning down conductors and TGB bars

REGULATIONS AND REFERENCES:

Complies with NTC 2050, RETIE, IEEE Std 80, ANSI/TIA-607 and UL 467.

EXOTHERMIC WELDING CHARGE

Cartridge of reagents for exothermic welding process, designed to make permanent molecularly homogeneous bonds between conductors, electrodes and metallic structures.



FEATURE	TECHNICAL SPECIFICATION
Product	Exothermic welding charge
Weight / Load	115 grams
Composition	Copper and aluminum oxide in grains (thermite)
Type of Union	Cable to cable, electrode to cable, and cable to metal structure (tower)
Electrical Resistance	Equal to or greater than the connected conductor (does not increase resistance)
Reaction Temperature	Approx. 1400 °C - 2200 °C inside the graphite mold
Presentation	Sealed, moisture-resistant plastic cartridge, includes retaining disc and ignition powder
Applications	Inseparable interconnection of tower downpipes to the grid and SPT electrodes

REGULATIONS AND REFERENCES:

Complies with IEEE 837, UL 467 and RETIE.

INSULATED COPPER CONDUCTOR

No. 2/0 AWG THHW

Single-core soft copper electrical conductor with thermoplastic insulation resistant to heat, moisture and chemical agents.



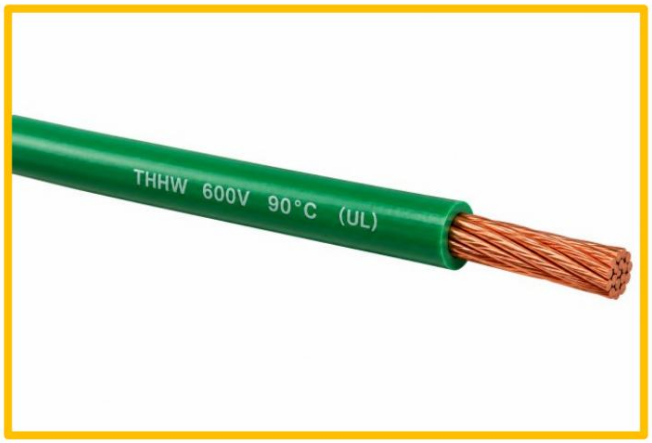
FEATURE	TECHNICAL SPECIFICATION
Product	Insulated copper cable for earthing/equipotentialization down conductor
Caliber	No. 2/0 AWG (67.4 mm²)
Conductor Material	High purity soft annealed copper (class B, 19 strands)
Isolation	PVC (Polyvinyl chloride) type THHW
Nominal Voltage	600 V
Operating Temperature	90 °C in dry and humid environments / 75 °C in water
Flame Resistance	Flame retardant (VW-1 / FT1)
Applications	Main down conductor of lightning protection systems (LPS) and grounding links

REGULATIONS AND REFERENCES:

Complies with NTC 2050, UL 83, ASTM B3/B8 and RETIE.

SCREEN MESH CONDUCTOR No. 10 AWG THHW

Insulated conductor designed for the interconnection of screens, reference screen meshes to negative electrode or ground planes.



FEATURE	TECHNICAL SPECIFICATION
Product	THHW type insulated copper cable
Caliber	No. 10 AWG (5.26 mm²)
Conductor Material	Soft copper (7-wire stranding or solid wire)
Isolation	THHW type PVC resistant to moisture and UV rays (if black color is specified)
Nominal Voltage	600 V
Operating Temperature	90 °C in dry/humid environment
Main Use	Ground/screen reference (negative electrode) on mesh Screens and electronic equipment

REGULATIONS AND REFERENCES:

Complies with NTC 2050, UL 83 and RETIE.

MATTBOSS
18740 CURRY POWDER LN
GERMANTOWN, MD 20874

1/2" GALVANIZED STEEL PIPE (PROTECTION)

(OF DOWNPIPES)

Rigid metal pipe made of zinc-coated steel for the mechanical protection of electrical conductors and grounding downpipes.



FEATURE	TECHNICAL SPECIFICATION
Product	Galvanized Steel Conduit Metal Pipe
Nominal Diameter	1/2" (approx. 16 mm inside)
Type of Galvanizing	Hot-dip galvanized inside and out
Wall Thickness	Rigid Type (Rigid Metal Conduit - RMC) or Intermediate Type (IMC) depending on impact requirement
Standard Length	3.05 meter (10 foot) sections with NPT threads or plain ends
Protection	High resistance to marine/atmospheric corrosion and direct mechanical impacts
Applications	Channeling and mechanical safeguarding of the cables that descend from the edges of the structure to ground level

REGULATIONS AND REFERENCES:

Complies with ANSI C80.1 / C80.6, UL 6, NTC 171 and RET