GALVANIZED STEEL GROUNDING ELECTRODE 3M

Vertical driving electrode for the efficient dissipation of fault currents and lightning strikes in the land.



FEATURE	TECHNICAL SPECIFICATION
Product	Grounding Rod / Electrode
Material	High-strength structural steel with coating Hot-Dip Galvanized
Nominal Length	3.0 meters (10 feet)
Nominal Diameter	5/8" (15.8 mm) or 3/4" (19 mm) as per design requirement
Galvanizing Thickness	Minimum 70 to 85 µm of zinc according to ASTM A123 standard / NTC 2050
Extremes	One is conical and punched to facilitate driving into the ground, and the opposite is flat/threaded for coupling.
Corrosion Resistance	Long-lasting cathodic protection in aggressive and low/medium resistivity soils
Applications	Grounding system configuration, triad configurations, substation grids and towers

REGULATIONS AND REFERENCES

Complies with NTC 2050, UL 467, IEEE Std 80, IEC 62561-2 and RETIE (Article 3.13.1.2).

CONNECTOR TO PRESSURE STRUCTURES IN STEEL STAINLESS STEEL (LENGTH/APPLICATION 30 MTS)

High mechanical robustness connector/clamp for continuous equipotential fixing of downpipes on metal structures, railings or profiles in vertical trajectory sections of up to 30 meters.



FEATURE	TECHNICAL SPECIFICATION
Product	Connector / Clamp for Pressure Structures
Material	High Strength Stainless Steel (AISI 304 / AISI 316)
Structure Thickness Range	3 mm to 18 mm (pressure-variable clamping jaw)
Range of Accepted Drivers	Direct connection with round conductors of diameter between 6 mm and 10 mm
Impact Certification	Type N (Normal Duty) test of 50 kA on 10/350 ÿs waveform according to IEC 62561-1
Tightening Torque	Stainless steel pressure bolts with anti-loosening locking mechanism
Application at Height	Distribution every 1.0 m 1.5 m along vertical downpipes up to 30 meters in length
Galvanic Immunity	Prevents bimetallic corrosion at the coupling between the tower/building structure and the down conductor

REGULATIONS AND REFERENCES

Tested and certified in full compliance with international standards IEC 62561-1 and IEC 62305.

ROUND WIRE ROD IN GALVANIZED STEEL IN HOT (St/tZn) 10MM FOR TRIAD

Solid rigid steel conductor coated with hot-dip zinc, designed for underground interconnection and formation of the grounding triad.



FEATURE	TECHNICAL SPECIFICATION
Product	Round Wire Rod / Solid Steel Conductor Galvanized (St/tZn)
Material	Hot-dip galvanized steel (St/tZn - Steel Hot-Dip Galvanized)
Nominal Diameter	10 mm
Cross Section	78 mm²
Short Circuit Capacity	Guaranteed short-circuit current of 5.5 kA
Coating Thickness	Meets zinc coating requirements ÿ 350 g/m² (approx. 50 µm) for direct burial
Rigidity and Molding	High mechanical resistance to tensile stresses and impact on the ground
Applications	Link ring, electrode interconnection in triad configuration and equipotential meshes

REGULATIONS AND REFERENCES

Product test certificate issued according to DIN EN 62561-2:2018 + AC:2019 (Lightning protection system components - Part 2: Requirements for conductors and earth electrodes). Complies with IEC 62305 and RETIE.

PLASTIC INSPECTION BOX FOR ELECTRODE GROUNDING (TYPE CT-N0658-DX)

Inspection and testing box for the protection, inspection and maintenance of the electrode test point of the grounding system.



FEATURE	TECHNICAL SPECIFICATION
Product	Inspection Box / Manhole for Electrode for Electrode Land
Model / Reference	Type CT-N0658-DX
Material	Thermoplastic polymer / reinforced polypropylene with high UV resistance
Compressive Strength	Proven capacity of 5,000 kg (50 kN / 5 Tons)
Entrances / Exits	Pre-cuts/Side punch-outs for passing round cables, plates and down conductors
Cover	Plastic lid with airtight seal secured by safety screws and engraved identification "EARTH / EARTHING"
Environmental Immunity	Immune to chemical soil corrosion, biological degradation, and water absorption
Applications	Registration of grounding wells, cut-off/test boxes in sidewalks, yards, industrial areas and antenna fields

REGULATIONS AND REFERENCES

Compliant with IEC 62561-5 (Requirements for earthing inspection boxes), RETIE and NTC 2050 standards.

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STEEL-MOUNTABLE GROUNDING ELECTRODE GALVANIZED

Deep driving electrode designed with an internal thread coupling system, optimized for the dissipation of fault currents and lightning strikes in deep soil strata where resistivity is
minor.



FEATURE	TECHNICAL SPECIFICATION
Product	Attachable Grounding Electrode / Rod
Material	Structural steel with galvanized coating Hot (St/tZn) by immersion
Nominal Diameter	Ø 20 mm
Nominal Length	1,500 mm (1.5 meters) per connectable section
Splicing System	Machined internal thread at lower end (M12 / M15) for joining by means of a threaded dowel/bolt
Zinc Thickness	Zinc coating ÿ 70 µm to 85 µm according to standard ASTM A123 / DIN EN ISO 1461
Operational Advantages	It allows successive modular driving until reaching low grounding resistances
Applications	Deep pile driving in high resistivity soils, telecommunications towers and substations

Regulations and References:
This component strictly complies with DIN EN 62561-2, IEC 62561-2, NTC 2050 standards and the Technical Regulation of Electrical Installations (RETIE).

PENETRATION TIP / CONICAL IN CAST IRON
Galvanized malleable (Ø20 MM)

High impact resistance conical tip developed to facilitate electrode penetration in highly compacted, stony or rocky terrain, while simultaneously protecting the integrity of the electrode's lower thread.



FEATURE	TECHNICAL SPECIFICATION
Product	Penetration Tip / Driving Rod for Electrode
Material	High-toughness malleable cast iron with hot-dip galvanized coating (St/tZn)
Coupling Diameter	Compatible with electrodes of Ø 20 mm
Dimensions Generals	20 mm × 40 mm
Fixing End	Self-tapping threaded/tapered spigot Ø12/15 mm for perfect fit on the electrode
Main Function	Drilling through the soil stratum, reducing friction, and protecting the electrode's useful surface.
Applications	Installation of grounding electrodes by rotary percussion or heavy mechanical driving

Regulations and References:
It complies with the requirements of DIN EN 62561-2 and IEC 62561-2 standards for lightning protection system connection components.

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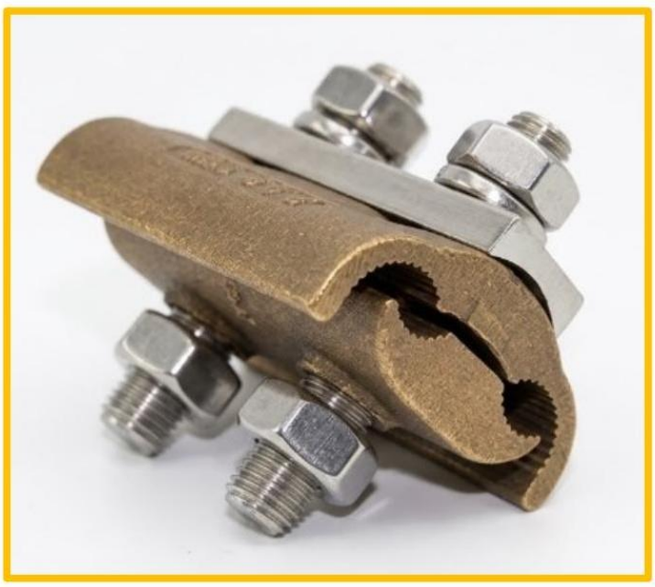
ELECTRODE CONNECTOR WITH INTERMEDIATE PLATE IN GALVANIZED STEEL

Multipurpose mechanical clamp equipped with an intermediate spacer plate. Its design prevents fretting or bimetallic corrosion and ensures a constant high-pressure contact surface over time.



FEATURE	TECHNICAL SPECIFICATION
Product	Electrode Connector/Clamp with Plate Intermedia
Material	Hot-dip galvanized steel (St/tZn)
Electrode Coupling	Designed for round electrodes of Ø 20 mm
Round Driver Range	Suitable for round conductors / cables from Ø 7 mm to 10 mm (section 35-70 mm²)
Flat Conductor Range	Suitable for copper or galvanized steel plate/strip up to 40 mm wide
Intermediate Plate	Separation plate to ensure uniform contact and mechanically decouple the elements
Screws	High-strength M10 galvanized steel bolts and nuts
Applications	Interconnection between the Ø20mm earth rod and the bonding ring or down conductor

Regulations and References:
Element tested and certified according to DIN EN 62561-1 and IEC 62561-1 standards.

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UV-stabilized petroleum-based anti-corrosive tape

FOR UNDERGROUND CONNECTIONS

Moldable passivating and sealing tape formulated with petrolatum hydrocarbons. Provides a permanent, watertight barrier against corrosion in buried joints and connectors, eliminating contact with the soil electrolyte.



FEATURE	TECHNICAL SPECIFICATION
Product	Petrolatum Anti-Corrosion Tape / Passivation Grease
Composition	Non-woven synthetic fabric impregnated with a saturating mass of petrolatum and inorganic fillers
UV resistance	Formulation stabilized against ultraviolet radiation for storage and outdoor use
Dielectric Strength	Exceptional insulation against erratic galvanic currents and soil moisture
Properties	It always remains plastic/flexible, it does not crack, harden or peel with thermal changes
Serving Temperature	-5 °C to +55 °C
Applications	Waterproofing and corrosion protection of underground connectors, exothermic joints and staples

Regulations and References:
Manufactured and validated in accordance with DIN 30672 and ISO 21809-3 standards relating to the anti-corrosion protection of buried or submerged elements.

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