

1. Galvanized 7 Gauge stay wires (guys) x 200m

7/2.00 mm: Standard for lighter LV applications.

Mechanical Properties

- **Tensile Strength:** High-tensile steel wire typically requires a minimum Ultimate Tensile Strength (UTS) of **1050 MPa** or higher to resist the loads from wind and conductor tension.
- **Breaking Strength:**
 - **single wire:** ~320 kg.
 - **stranded (Stay Wire):** Roughly

minimum breaking load on (Grade 700 or 1000).

Must allow for thermal expansion and mechanical stress without snapping.

(a) Galvanizing & Corrosion Resistance

- **Standard:** Must comply with **SANS 121** (ISO 1461) for hot-dip galvanizing on fabricated articles or **SANS 935** specifically for steel wire.
- **Coating Quality:** Typically requires **Class A (Heavy)** galvanizing to withstand South Africa's high pollution and coastal environments.
- **Coating Thickness:** Minimum local coating thickness is often specified at **115**

m for harsh environments (C4 to C5 categories) to prevent premature rusting of the steel core.

(b) Material Composition

- **Steel Grade:** Manufactured from mild or high-tensile steel (often grades like **S275JR** or **S355JR**) with controlled silicon and phosphorus levels to ensure a uniform zinc bond.

- **Weldability:** Carbon and manganese contents are limited to ensure the steel remains weldable if integrated into larger support structures.

(c) Configuration for LV Support

- **Stranding:** Usually provided as **7-strand** wire to offer flexibility and redundancy compared to a single solid core.
- **Usage Context:** Primarily used for **stay wires** (guys) to support wooden or concrete poles at angle or terminal position

2. Compact Distribution Boards (Standard Electrical Specifications) X 80

- **Main Switch:** 63A Double Pole Miniature Circuit Breaker (MCB).
- **Earth Leakage Protection:** Integrated 63A Earth Leakage Unit.
- **Circuit Breakers:** Typically include
 MCBs for plug circuits and or
 MCB for lighting.
- **Sockets:** Generally, feature
 3-pin switched sockets and
 2-pin Euro socket.
- **Lighting:** Must feature an optional built-in bulkhead light fitting, which can be standard or LED.
- **Material:** Durable, fire-resistant plastic enclosure (e.g., SMC material).
 Rated Current 63A continuous capacity, typically with a C-type trip curve (5–10 times rated current).
- **Breaking Capacity** (6kA or 10kA (6,000A - 10,000A) to ensure safe interruption of short-circuit currents.
- **Operating Temperature:** must maintain stability from -40°C to +75°C.

- **Corrosion Resistance:** Components should feature nickel or tin-plated terminals and stainless steel or galvanized steel internal parts to resist salt spray and humidity.
- **Enclosure Rating:** While the MCB itself is often IP20, it must be installed in an enclosure rated at **IP65 or higher** to ensure protection against dust, water spray, and chemical contaminants.
- **Housing Material:** High-grade thermosetting plastic or thermoplastics like polycarbonate/ABS that are flame-retardant and heat-stable (up to 140°C).
- **Mounting:** 35mm DIN rail mounting (EN 60715).

3. 63A Single Pole Circuit Breakers x 70

- **Hydraulic-Magnetic Technology:**
 - Must not be affected by high ambient temperatures
 - Must provide reliable protection in hot environments without needing to be derated.
- **Vibration Resistance:** Internal components should be engineered to withstand high vibration, often found in mining or large machinery applications.
- **UV Protection:** If the protective enclosure is exposed to sunlight, it should be UV-stabilized.
- Circuit breaker thickness must be QF-1 (26)
- It must be black in colour with orange or white operating mechanism
- 240v/50Hz

4. M16 x 160mm Galvanized Bolts and Nuts x 40

Must be made from galvanized high-strength steel typically hot-dip galvanized for resistance in construction and infrastructure projects

- **Diameter:** 16mm (M16)
- **Thread Pitch:** 2.0mm (Coarse)
- **Across Flats (Spanner Size):** 24mm
- **Head Thickness (Bolt):** 10.32mm
- **Height (Nut):** 13mm to 14.8mm
- **Finish:** Hot Dip Galvanized (HDG) or Electro-Galvanized
- **Standard Compliance:** DIN 931/933 (Bolts), DIN 934 (Nuts), ISO 1461 (Galvanizing)
- **High Tensile (Grade 8.8):** Common for structural applications, high strength, and resistance to heavy loads.

Common Standards

- **Bolt Standard:** [DIN 931](#) (partial thread) or [DIN 933](#) (full thread).
- **Nut Standard:** [DIN 934](#) or [AS1112](#).

5. Steel Strapping Buckle – 12mm (Pack of 100)

- **Material:** Galvanized Steel
- **Size:** Fits 19mm (3/4) wide steel strapping
- **Type:** Standard open-center buckle/seal for overlapping strap ends
- **Finish:** Zinc-plated (galvanized) for corrosion resistance
- **Tensile Strength:** Rated to match or exceed the strength of standard 19mm steel strapping
- **Package Quantity:** 100 pieces per box
- **Application:** Must be crimped with a compatible strapping tool (manual, pneumatic, or battery-powered).

Package Includes:

- 1 Box containing 100x Steel Strapping Buckles (19mm)

6. ABC Dead End Clamps 50mm Sets x 20

Conductor size	50mm
Voltage Class	Low Voltage
Material	Aluminum
Clamp Type	Dead End
Corrosion Coating	Galvanized
Usage/ Application	Electrical Industry
Voltage	1KV
Packaging Type	Box
Usage	Transmission line, overhead line
Installation Type	Terminal Pole

7. Number 2 PVC compression glands x 80

- **Material:** High-quality Nylon (PA66) or tough engineering plastic.
- **Protection Rating:** Usually rated **IP68** (waterproof up to 2m) and often IP69K for high-pressure washdown.
- **Temperature Range:** Typically -40°C to +100°C (with short-term resistance up to 120°C).
- **Thread Types:** M20,
- **Cable Type:** Suitable for silicon cable and tough applications.
- **Flame Resistance:** Often tested to 750°C (Glow wire