



Technical Specifications of Distribution Service Line Materials



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1. Purpose and Scope

This specification sets out the **guideline requirements** for the **supply of service materials for a fully exposed Distribution Network**.

2. Standards

All items/materials and equipment **manufactured shall conform** under **these specifications** with **latest applicable standards of AS/NZS, ANSI, IEC, NFC, IEEE, BS** except otherwise specified in this document.

Applicable Standards	Description
IEC 60947-3	Switches, disconnectors, switch-disconnectors and fuse-combination units
IEC 60269-2	Low Voltage Fuses
AS/NZS 4680	Hot-dip galvanized (zinc) coatings on fabricated ferrous articles
ISO 9001	Quality Management

3. Material List and Quantity

Material	Specification	Reference	Quantity
Pole Fuse Holder	Material – Polymer Housing with Tinned Copper Alloy contacts Rated voltage: 450V Rated insulation voltage: 1000V Rated Current Fuse Link up to 100A	IEC 60947-3 IEC 60260-2	3000
Pole Fuse Holder Bracket	L-Shape Single Bracket Material: Mild Steel with hot dip galvanized finish Min Average Zinc coating: 600g/m ³	AS/NZS 4680:2000	2000
	L-Shape Multi Bracket (suitable for 3 fuse holders) Material: Mild Steel with hot dip galvanized finish Min Average Zinc coating: 600g/m ³		1000

Type Test required for all items above and a type test Report shall also be provided. Signed and Certified

4. Drawings

The tenderer to supply with the tender detailed drawings and pictures of the items tendered.

5. Local Environment Conditions

The **items/materials** as listed are **exposed** to the following **environmental conditions**.

Factors	Conditions
Temperatures	Ranges from 20°C -45°C
Solar Radiation	1000 W/m ²
Humidity	Relative humidity in excess of 90%
Precipitation	Range of 3000 mm to 6000 mm rainfall annually

	Exposure to winds in excess of 250km/hr.
Pollution	Salt spray and salt deposit densities on coastal areas and pollution ranging from 3.0g/m ² to 4.50g/m ²

6. Quality Assurance

The manufacturer shall possess certified certificate of Quality Assurance under the ISO 9001:2015, ISO 9001:2008 is also acceptable for the factory where the materials were manufactured. The bidders must provide with the bid a copy of the ISO Certificate certified as a true copy of the original by the manufacturer.

7. Tests

All items in this tender are referenced to Standards specified. It is important for the tenderer **“To provide Type Test Reports with the Offer as specified in each Reference Standards specified in Clause 2 and 3 of this tender”** failure to do so will lead to rejection of the Bid.

8. Routine Tests

Each set of items shall be subjected to the routine tests conforming to the standards specified for each item which shall be furnished with the equipment during manufacturing process.