

Coaxial cable RG62 A/U with CSA FT4 certification	 <b>IAEA</b> International Atomic Energy Agency	IAEA Specification 2022-10-06
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## SPECIFICATION

### Coaxial cable RG62 A/U with CSA FT4 certification

#### 1. Scope

This Specification describes the requirements for a Coaxial Cable RG62 A/U with CSA FT4 certification and a nominal characteristic impedance of 93  $\Omega$ , single shielded with flame retardant thermoplastic halogen free Jacket used in areas of high frequency transmission systems (hereinafter referred as the "Cable").

#### 2. Requirements

##### 2.1. Functional and Performance Requirements

The Cable shall meet the following functional and performance requirements:

- 2.1.1. Be a coaxial cable type RG62 A/U with a nominal characteristic impedance of 93 Ohms ( $\Omega$ );
- 2.1.2. Be single shielded with flame retardant thermoplastic halogen free outer jacket;
- 2.1.3. Be operational in the temperature range of -20°C to +60°C; and
- 2.1.4. Have CSA FT4 certification (certificate required).

##### 2.2. Technical Requirements

###### 2.2.1 Material Requirements

The Cable shall meet the following material requirements:

Part	Material	Outer diameter
Conductor	22 AWG solid bare copper	0.64 mm (0.025 in)
Insulation	Polyethylene air space	3.71 mm (0.146 in)
Outer shield	Braid copper coverage 95%	
Outer Jacket	Flame retardant thermoplastic halogen free	6.1 mm (0.239 in)

###### 2.2.2 Electrical Requirements

The Cable shall meet the following electrical requirements:

- Impedance: 93  $\pm$  5% Ohms ( $\Omega$ );
- Capacitance: < 50 pF /m;
- Maximum operating Voltage:  $\geq$ 100 V rms; and
- Maximal operating frequency: 3GHz.

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### 3. Marking

The Cable shall be clearly marked in the English language, with the following information:

***Manufacturer Name***

***Model number***

### 4. Packing

The Cable, for the shipment by air to the International Atomic Energy Agency (IAEA), shall be packed in accordance with international standards that are applicable for the shipment by air of this kind of equipment.

### 5. Quality Requirements

5.1. The Cable shall be manufactured, shipped and installed in accordance with the Supplier's ISO quality assurance system or an equivalent quality assurance system; and

5.2. The Supplier shall document the compliance with this quality assurance system.

### 6. Deliverables

The Supplier shall provide 10000 m of the requested Cable in rolls of 1000 m or 500m length as well as CSA FT4 certification documents.

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