

RW-012  
JANUARY 2003

**ENGINEERING AND OPERATIONS  
NORTHERN AIRPORTS**

**SPECIFICATION FOR SERIES CIRCUIT  
PRIMARY CONNECTORS FOR USE IN  
MEDIUM INTENSITY AIRFIELD LIGHTING SYSTEMS**

Manitoba  
Transportation and  
Government Services



**TRANSPORTATION AND GOVERNMENT SERVICES  
NORTHERN AIRPORTS**

**SPECIFICATIONS FOR MEDIUM INTENSITY  
AIRFIELD LIGHTING SERIES CIRCUIT  
PRIMARY CONNECTORS**

**1. SCOPE**

This specification defines the general requirements applicable to Airfield Lighting Series Circuit Primary Connectors. The intent of this specification is to establish minimum acceptable electrical, mechanical, design and performance requirements, which all Series Circuit Primary Connectors must meet to ensure satisfactory and reliable operation. It is not intended to impose restrictions upon design or materials, which must conform to the FAA standard. All FAA standards, current FAA specifications at time of contract, not specifically mentioned in this specification will apply. Where there is a conflict between this specification and the latest FAA standard, this specification will apply.

**2. REQUIREMENTS**

- 2.01 All primary connectors must be in accordance with FAA Specifications.
- 2.02 The primary connectors must be a separable, waterproof connection between a unshielded, 5KV primary airfield cable and an isolating transformer or a unshielded 5KV primary series circuit cable.
- 2.03 The primary connector must incorporate a locking feature.
- 2.04 The primary connector (male) must be the Amerace 54 Super-Z4Z4 Series Style 3. The primary connector (female) must be the Amerace 54 Super Z4Z4 Series Style 10.
- 2.05 The exact outer diameter of the cable will be supplied to the manufacturer of the primary connectors by the cable supplier for proper sizing of the primary connection kits.

**3. WARRANTY**

- 3.01 All connectors must be guaranteed against failure for one year from date of acceptance by the Traffic Engineering Branch of the Department of Transportation and Government Services.

#### **4. INSPECTION AND ACCEPTANCE**

- 4.01 The vendor must supply one evaluation sample unit of each primary connector being supplied along with all testing and technical documentation.

Primary Connectors that conform to this specification and are not currently in use by this Department must be submitted to the Traffic Signal Workshop for a one-year evaluation period by the Department. At the end of the evaluation period the supplier will be advised by the Traffic Operations Engineer if the equipment submitted for evaluation is acceptable.

The total cost of supplying this equipment for evaluation must be borne by the supplier. The bidder must complete the attached "Specification Compliance Summary" attached). Failure to complete the summary will result in disqualification from the bidding.

- 4.02 All shipments of Series Lighting Primary Connectors are subject to the inspection by the Traffic Engineering Branch of the Department of Transportation and Government Services.

Acceptance will be based on the supplied equipment meeting the requirements of this specification.

- 4.03 For additional technical information please contact Mark Seniuk at (204) 945-7335 office, or (204) 799-8682 cellular.