

# SPECIFICATION

## Extension cords for frangible airport masts



Extension cords shall be fully compliant with ICAO Aerodrome design manual part 6. Frangibility, clause 4.8.1 and clause 4.8.2. The compliance ensures a safe break-away mechanism under impact. Connection parts inside extension cords shall be fully compliant with the latest edition of FAA AC 150/5345-26 specification for L-823 Type II, class B connectors. The compliance ensures a perfect fit with the connectors of the approach light units and transformers.

Extension cords shall be made from the same thermoplastic elastomeric material as the opposite connector of the lights or series transformers and equipped with a protective sleeve to prevent any additional hazards like ignition of kerosene. The pins and sockets shall be made from respective nickel and tin plated.

Extension cords insulation shall have a nominal voltage of 600 V to ground. Copper conductor cross sections for 6.6A shall be 2.5 mm<sup>2</sup> / AWG 12. Extension cords shall be pressure encapsulated with double insulated two core cable to avoid cable rupture, yet breaking safely at the predetermined point. Extension cords connection points shall be in line with frangible airport masts break-away points to ensure proper frangibility behavior of mast structure and to avoid “wrap around” the colliding aircraft or any part of it.

