

# Meeting Minutes

CE-4.1 Subcommittee on Rigid Coax

Tuesday, April 17

2:00pm – 5:00pm

Conference Room 10, Las Vegas Hilton

## **Attendees:**

Stephen Drew – VP of Sales; The Linderme Tube Co.

Bill Tobin – Application Engineer; Bird Technologies Group

Keith Pelletier – Electrical Engineer; Dielectric Communications

Kerry Cozad – VP of Engineering; Dielectric Communications

Stephen Kolvek – Director of Coaxial Products; Myat, Inc.

Dean Spooner – Manager, Transmission Line Engineering, Electronic Research, Inc.

Kevin Thompson – Broadcast Engineering Manager; Radio Frequency Systems

Brian Riley – Product Manager; KME America Inc.

## **Purpose:**

The purpose of the formation of this EIA subcommittee is to revise RS-225 and 259 to today's current practices. This will include dimensional and/or feature changes to existing coax sizes as well as the definition of new sizes that have not been standardized.

## **New Business:**

1. Non-flanged coax compatibility
2. Make centering pin installation optional and inactive for future sizes (Ref IEC-339-2 Section 2.2, p 11)
3. Insertion/pull out force minimum and maximums per size with gage definition
4. Define suffix for fixed and swivel flange
5. Define suffix for male or female inner conductor connection
6. Add  $TE_{11}$  cutoff for each size
7. Add Hi-Pot minimums for each size

## **Discussion Notes from Meeting:**

Can IEC-339-1 and 2 be made available on EIA website?

Committee members want to create a new standard that combines 50 & 75 ohm

Discussion was had regarding the standardization of connector shoulder and insulator diameter. Consensus was that this should be left to the discretion of the manufacturer based on their application.

Discussion was had regarding standardizing the pin hole orientation between 20 pieces of transmission line. Consensus was that this was a good idea that should be added to the standard.

Discussion was had regarding the establishment of resistivity values for copper. The standardization of this would lead to comparable power handling values between manufacturers. A standard formula for power handling should be created

Discussion was had regarding the establishment of minimum conductivity values for inner and outer conductor. No consensus was made regarding this.

Discussion was had regarding the minimum Hi-Pot testing. Assumed atmospheric conditions would need to be established

Discussion was had regarding mechanical forces generated by vertical hangers (spring and fixed). Standardize that a minimum of 1 fixed hanger must be placed at the top of the run. No consensus was made regarding these points and were left to later meetings

Discussion was had regarding the establishment of minimum grounding requirements for transmission line runs. No consensus was made regarding this point and was left to later meetings

**Timeline:**

Committee members submit diagrams to A Jones by May 4<sup>th</sup> (2 weeks).

Committee members review and submit comments on diagrams by June 4<sup>th</sup> (1 month)

After this has been done will schedule a conference call to discuss comments and plan next action