CALIBRATION CERTIFICATE

No. 05-2024-FORC-0173

Date of Calibration : October 01, 2024

Calibration Item : Tensile Testing Machine

Capacity : 500 kgf

Measurement Range: 0 kgf to 250 kgf

Resolution : 0.01 kgf

Make / Model : Go Tester / WTP-301S (Load Cell); (Indicator)

Serial No. : C23080037 (Load Cell); (Indicator)
Customer : AC HARRIS CABLE CORPORATION

No. 5 Pio Del Pilar Cor., Magat Salamat St.

Concepcion, Marikina City

MEASUREMENT RESULTS:

Applied Force	Indicated Force	Relative Expanded Uncertainty	Relative Measurement Error	Relative Repeatability Error
kgf	kgf	%	%	%
0.0	0.0	0.00	0.00	0.00
50.0	49.8	1.30	0.49	2.16
100.0	99.8	0.32	0.22	0.52
150.0	150.5	0.97	-0.31	1.52
200.0	199.2	0.60	0.41	0.97
250.0	248.9	0.14	0.44	0.21

UNCERTAINTY OF MEASUREMENT:

The uncertainty stated is the expanded uncertainty obtained by multiplying the standard uncertainty by the coverage factor k = 2. It has been determined in accordance with the "JCGM 100:2008 Evaluation of measurement data- Guide to the Expression of Uncertainty in measurement". The value of the measurand lies within the assigned range of values with a probability of approximately 95%.

STANDARD USED:

Name of Standard	Make/Model	Calibration Certificate No.	Traceability
Load Cell	HBM/Z4A	1900-01609-003	Traceable to SI through
SN 161430192	IDM/Z4A	1900-01009-003	KRISS - Korea

CALIBRATION PROCEDURE:

The testing machine under calibration was subjected to specified force values which were applied on the standard force-proving instrument and readings were noted. The relevant reference document for this calibration is ISO 7500-1:2018, Metallic materials – Verification of static uniaxial testing machines.

Relative measurement error refers to the measured quantity value (indicated force) minus a reference quantity value (applied force). Relative repeatability error is a measurement precision under a set of repeatability conditions of measurement.

ENVIRONMENTAL CONDITIONS:

Ambient Temperature : (25 ± 2) °C Relative Humidity : (51 ± 5) %

REMARKS:

- The above results were those obtained at the time of calibration and refer only to the testing machine calibrated in tension.
- No adjustment was performed on the testing machine. The user should determine suitability of the testing machine for its intended use.
- The testing machine was calibrated at the Quality Control Room of AC Harris Cable Corporation at No. 5 Pio Del Pilar Cor., Magat Salamat St., Concepcion, Marikina City.

AHDRIAN CAMILO C. GERNALE

Science Research Specialist II

RADLEY F. MANALO Senior Science Research Specialist

For the Chief, National Metrology Laboratory

MARYNESS I. SALAZAR, PhD Head, Pressure and Force Standards Section Date issued:

- End of Report-