



財團法人全國認證基金會
Taiwan Accreditation Foundation

Certificate of Accreditation

(Certificate No : L1204-250804)

This is to certify that

TA YA Electric Wire & Cable Co., Ltd.

TA YA Test Laboratory

249, Chung Shan Rd., Sec.2, Kuan Miao Dist., Tainan City, 718, TAIWAN, R. O. C.

is accredited in respect of laboratory

Accreditation Criteria : ISO/IEC 17025:2017 ; CNS 17025:2018

Accreditation Number : 1204

Originally Accredited : February 01, 2004

Effective Period : November 10, 2023 to November 09, 2026

Accredited Scope : Testing Field, see described in the Appendix



Scan to verify

Yi-Ling Chen

Yi-Ling Chen
President, Taiwan Accreditation Foundation
August 04, 2025

Accreditation Number : 1204

Laboratory Head : PAN, Chien-Hsun

▼ 18. 05 Commodity

LSFH Wires and Cables, Plastics for Wires and Cables

C047 Conductivity

IEC 60754-2 Method 1

(0.1 to 500) $\mu\text{s}/\text{mm}$

Approval Signatory: HUANG, Ming-Chin

C128 Acidity

IEC 60754-2 Method 1

pH: 4 to 8

Approval Signatory: HUANG, Ming-Chin

C194 Specific Optical Density

ASTM E662

Specific Optical Density: 0 to 500

Approval Signatory: HUANG, Ming-Chin

C195 Halogen Acid Content

IEC 60754-1 Method 1

(1 to 690) mg/g

Approval Signatory: HUANG, Ming-Chin

C523 Oxygen Index

ASTM D2863

17.5 to 60

Approval Signatory: HUANG, Ming-Chin

C524 Toxicity Index

NES 713

0.1 to 10

Approval Signatory: HUANG, Ming-Chin

T999 Others

Temperature Index (Flammability Temperature)

BS EN ISO 4589-3 (Annex A)

(125 to 400) $^{\circ}\text{C}$

Approval Signatory: HUANG, Ming-Chin

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The Appendix forms an integral part of this Certificate, which shall be invalid when use without the Appendix



■ 18.05 Commodity

Wires, Cables

E007 Conductor Resistance

IEC 60502-1

(16 to 500) mm² (single-core cables, AC 3 kV, Max.)

(1x10⁻³ to 50) Ω

Approval Signatory: YANG, Chuan-Chung; CHENG, Kun-Tai

E007 Insulation Resistance (90 °C)

IEC 60502-1

(16 to 500) mm² (single-core cables, AC 3 kV, Max.)

Approval Signatory: YANG, Chuan-Chung; CHENG, Kun-Tai

E007 Voltage Test (in water)

IEC 60502-1

(16 to 500) mm² (single-core cables, AC 3 kV, Max.)

Approval Signatory: YANG, Chuan-Chung; CHENG, Kun-Tai

E007 Electrical & Mechanical Testing

Voltage Test

CNS 2655

Solid Conductor: (1.6 to 3.2) mm

Strand Conductor: (2 to 1000) mm²

Approval Signatory: PAN, Chien-Hsun

E007 Electrical & Mechanical Testing

Voltage Test

CNS 679

CNS 689

CNS 3301

600 V, 0.8 mm to 500 mm²

600 V, VVR (2x1.0) mm to (4x325) mm²

600 V, VVF (2x1.0) mm to (3x8) mm²

Approval Signatory: PAN, Chien-Hsun

E007 Electrical & Mechanical Testing

Insulation Resistance

CNS 2655

Solid Conductor: (1.6 to 3.2) mm

Strand Conductor: (2 to 1000) mm²

(1x10⁶ to 1x10¹²) Ω

At Room Temperature

Approval Signatory: PAN, Chien-Hsun



E007 Electrical & Mechanical Testing

Insulation Resistance

CNS 679

CNS 689

CNS 3301

600 V, 0.8 mm to 500 mm²

600 V, VVR (2x1.0) mm to (4x325) mm²

600 V, VVF (2x1.0) mm to (3x8) mm²

(1x10⁶ to 1x10¹²) Ω

At Room Temperature and High Temperature

Approval Signatory: PAN, Chien-Hsun

E007 Electrical & Mechanical Testing

Conductor Resistance

CNS 2655

Solid Conductor: (1.6 to 3.2) mm

Strand Conductor: (2 to 1000) mm²

(1x10⁻³ to 50) Ω

Approval Signatory: PAN, Chien-Hsun

E007 Electrical & Mechanical Testing

Conductor Resistance

CNS 679

CNS 689

CNS 3301

600 V, 0.8 mm to 500 mm²

600 V, VVR (2x1.0) mm to (4x325) mm²

600 V, VVF (2x1.0) mm to (3x8) mm²

(1x10⁻³ to 50) Ω

Approval Signatory: PAN, Chien-Hsun

M002 Tensile Strength and Elongation

IEC 60502-1

IEC 60811-501

(19.6 to 4900) N

(2 to 500) kgf

(0~800) mm

Approval Signatory: YANG, Chuan-Chung; CHENG, Kun-Tai

M002 Tension

Tensile Strength and Elongation

CNS 2655

(2 to 500) kgf

Approval Signatory: PAN, Chien-Hsun

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The Appendix forms an integral part of this Certificate, which shall be invalid when use without the Appendix



M002 Tension
Tensile Strength and Elongation
CNS 679
CNS 689
CNS 3301
600 V, 0.8 mm to 500 mm²
600 V, VVR (2x1.0) mm to (4x325) mm²
600 V, VVF (2x1.0) mm to (3x8) mm²
(2 to 500) kgf

Approval Signatory: PAN, Chien-Hsun

M017 Dimension
Construction Inspection
CNS 2655
Solid Conductor: (1.6 to 3.2) mm
Strand Conductor: (2 to 1000) mm²

Approval Signatory: PAN, Chien-Hsun

M017 Dimension
Construction Inspection
CNS 679
CNS 689
CNS 3301
600 V, 0.8 mm to 500 mm²
600 V, VVR (2x1.0) mm to (4x325) mm²
600 V, VVF (2x1.0) mm to (3x8) mm²

Approval Signatory: PAN, Chien-Hsun

M017 Dimension
Construction Inspection
IEC 60502-1
IEC 60811-201
IEC 60811-202
IEC 60811-203
Strand Conductor: (1.5 to 500) mm²

Approval Signatory: YANG, Chuan-Chung; CHENG, Kun-Tai

M017 Dimension
Construction Inspection
National Fire Agency Heat Resistant Wire Cable Approval Standard
Solid Conductor: (0.8 to 5.0) mm
Stranded Conductor: (0.9 to 500) mm²

Approval Signatory: AI, Chin-Bao; CHENG, Kun-Tai



M017 Dimension
Construction Inspection
National Fire Agency Fire Resistant Cable Approval Standard
Solid Conductor: (1.0 to 2.6) mm
Stranded Conductor: (1.25 to 1000) mm²

Approval Signatory: AI, Chin-Bao; CHENG, Kun-Tai

M017 Dimension
Construction Inspection
CNS 1364
CNS 5745
Solid Conductor: (0.26 to 12.0) mm

Approval Signatory: PAN, Chien-Hsun; CHENG, Kun-Tai

M017 Dimension
Construction Inspection
CNS 1365
Stranded Conductor: (0.9 to 1000) mm²

Approval Signatory: PAN, Chien-Hsun; CHENG, Kun-Tai

M021 Aging Test
CNS 2655
(2 to 500) kgf
(50 to 200) °C

Approval Signatory: PAN, Chien-Hsun

M021 Aging Test
Aging Test
CNS 679
CNS 689
CNS 3301
600 V, 0.8 mm to 500 mm²
600 V, VVR (2x1.0) mm to (4x325) mm²
600 V, VVF (2x1.0) mm to (3x8) mm²
(2 to 500) kgf
(50 to 200) °C

Approval Signatory: PAN, Chien-Hsun

M021 Aging Test
Aging Test
IEC 60502-1
IEC 60811-401
(19.6 to 4900) N

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(2 to 500) kgf
(50 to 200) °C
(0~800) mm

Approval Signatory: YANG, Chuan-Chung; CHENG, Kun-Tai

M024 Low Temperature
Cold Resistance (Low Temperature Resistance)
CNS 689
CNS 3301
600 V, VVR (2x1.0) mm to (4x325) mm²
600 V, VVF (2x1.0) mm to (3x8) mm²

Approval Signatory: PAN, Chien-Hsun

M033 Immersion
Oil Immersion
CNS 2655
(2 to 500) kgf

Approval Signatory: PAN, Chien-Hsun

M033 Immersion
Oil Immersion
CNS 679
CNS 689
CNS 3301
600 V, 0.8 mm to 500 mm²
600 V, VVR (2x1.0) mm to (4x325) mm²
600 V, VVF (2x1.0) mm to (3x8) mm²
(2 to 500) kgf

Approval Signatory: PAN, Chien-Hsun

M090 Heat Resistance
Heat Shrinkage Test
CNS 679
CNS 689
CNS 3301
600 V, 0.8 mm to 500 mm²
600 V, VVR (2x1.0) mm to (4x325) mm²
600 V, VVF (2x1.0) mm to (3x8) mm²

Approval Signatory: PAN, Chien-Hsun

M090 Heat Resistance
Heat Distortion Test
CNS 679

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CNS 689
CNS 3301
600 V, 0.8 mm to 500 mm²
600 V, VVR (2x1.0) mm to (4x325) mm²
600 V, VVF (2x1.0) mm to (3x8) mm²

Approval Signatory: PAN, Chien-Hsun

M090 Heat Resistance
Heat Winding Test
CNS 2655
(50 to 200) °C

Approval Signatory: PAN, Chien-Hsun

M090 Heat Resistance
Clod Winding Test
CNS 679
CNS 689
CNS 3301
600 V, 0.8 mm to 500 mm²
600 V, VVR (2x1.0) mm to (4x325) mm²
600 V, VVF (2x1.0) mm to (3x8) mm²

Approval Signatory: PAN, Chien-Hsun

M090 Heat Resistance
Heat Resistant Test
CNS 11175 (1989)
National Fire Agency Heat Resistant Wire Cable Approval Standard

Approval Signatory: AI, Chin-Bao; CHENG, Kun-Tai

M090 Heat Resistance
Hot Set Test
IEC 60502-1
IEC 60811-507
(50 to 300) °C

Approval Signatory: YANG, Chuan-Chung; CHENG, Kun-Tai

T001 Flammability
Heating Furnace Fire Resistant Test
CNS 11174 (1989)
CNS 11359 6.10.2
National Fire Agency Fire Resistant Cable Approval Standard

Approval Signatory: AI, Chin-Bao; CHENG, Kun-Tai

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T001 Flammability
Flame Retardant Test
CNS 679
CNS 689
CNS 3301
600 V, 0.8 mm to 500 mm²
600 V, VVR (2x1.0) mm to (4x325) mm²
600 V, VVF (2x1.0) mm to (3x8) mm²

Approval Signatory: PAN, Chien-Hsun

T001 Flammability
Flame Test for Vertically-Mounted Single Wires or Cables
IEC 60332-1-1
IEC 60332-1-2
IEC 60332-1-3

Approval Signatory: AI, Chin-Bao; CHENG, Kun-Tai

T002 Flame Resistance
Tests for Electric Cables under Fire Conditions IEC 60331-21
CNS 11359 6.10.1
National Fire Agency Fire Resistant Cable Approval Standard sec. 6 clause 11 item 1

Approval Signatory: AI, Chin-Bao; CHENG, Kun-Tai

■ 18.05 Commodity
Bare soft single solid copper wire
M002 Tension
Elongation
CNS 1364
CNS 5745

Approval Signatory: PAN, Chien-Hsun; CHENG, Kun-Tai

■ 18.05 Commodity
Wires, Cable
M090 Heat Resistance
Heat Winding Test
CNS 679
CNS 689
CNS 3301
600 V, 0.8 mm to 500 mm²
600 V, VVR (2x1.0) mm to (4x325) mm²
600 V, VVF (2x1.0) mm to (3x8) mm²

Approval Signatory: PAN, Chien-Hsun



■ 18. 05 Commodity

Wires, Cables, Optical Fiber Cables

T001 Flammability

Test for Vertical Flame Spread of Vertically-Mounted Bunched Wires or Cables

IEC 60332-3-21

IEC 60332-3-22

IEC 60332-3-23

IEC 60332-3-24

IEC 60332-3-25

CNS 15130-3-21

CNS 15130-3-22

CNS 15130-3-23

CNS 15130-3-24

CNS 15130-3-25

Approval Signatory: AI, Chin-Bao; CHENG, Kun-Tai

T001 Flammability

Vertical Tray Flame Test on Complete Cable

IEEE 383 (1974)

IEEE 1202

Fire Resistant Cable Approval Standard (National Fire Agency) Sec. 6 Clause 12

Heat Resistant Wire and Cable Approval Standard (National Fire Agency) Sec .5 Clause 11

Approval Signatory: HUANG, Ming-Chin

■ 32. 01 Railway Equipment and Engineering

Materials and components of railway vehicles

C194 Optical Density

ISO 5659-2

EN 45545-2

CNS 16108-2

Transmission: (0 to 100) %

Approval Signatory: WU, Tsung-Han

C524 Conventional Toxicity Index

EN 17084 Method 1

EN 45545-2

CNS 16108-2 Annex C Method1

CO₂: (0 to 2.5) % (v/v)

CO: (0 to 100) µL/L (ppm)

NO: (0 to 500) µL/L (ppm)

NO₂: (0 to 500) µL/L (ppm)

SO₂: (0 to 1000) µL/L (ppm)

NH₃: (0 to 700) µL/L (ppm)

HCl: (0 to 5000) µL/L (ppm)

HBr: (0 to 1000) µL/L (ppm)

HF: (0 to 1000) µL/L (ppm)

Approval Signatory: WU, Tsung-Han

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■ 32. 01 Railway Equipment and Engineering
Railway vehicle materials and parts
T002 Ignition when subjected to direct impingement of flame
ISO11925-2

Approval Signatory: YANG, Ya-Li

(Null below)

