



Certificate No. : L1496-181001

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

Certificate of Accreditation

This is to certify that

Pacific Electric Wire & Cable Co. Ltd.
Testing Laboratory

No.858, Sec.5, Kuaisu Rd., Yangmei District, Taoyuan City 32661, Taiwan (R.O.C.)

is accredited in respect of laboratory

Accreditation Criteria : ISO/IEC 17025:2005
Accreditation Number : 1496
Originally Accredited : November 29, 2005
Effective Period : October 01, 2018 to September 30, 2021
Accredited Scope : Testing Field, see described in the Appendix

Chung-Lin Wang
President, Taiwan Accreditation Foundation
Date : October 01, 2018



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Accreditation Number : 1496

Laboratory Head : CHIN, Chen-Chiang

18.05 Commodity
Wires, Cables, Plastic for Wire and Cable
C047 Conductivity
IEC 60754-2
(0.3 to 140) $\mu\text{S}/\text{mm}$

Approval Signatory: CHEN, Chih-Chiang; TSENG, Yu-Ting; HUANG, Paul

C128 Acidity
IEC 60754-2
pH4 to pH7

Approval Signatory: CHEN, Chih-Chiang; TSENG, Yu-Ting; HUANG, Paul

C194 Specific Optical Density
ASTM E662
National Fire Agency Fire Resistant Cable Approval Standard
National Fire Agency Heat Resistant Wire Cable Approval Standard
1 to 400

Approval Signatory: CHEN, Chih-Chiang; TSENG, Yu-Ting; HUANG, Paul

C195 Halogen Acid Content
IEC 754-1 (1982)
IEC 60754-1
IEC 754-1: (0.7 to 500) mg/g
IEC 60754-1: (1 to 700) mg/g

Approval Signatory: CHEN, Chih-Chiang; TSENG, Yu-Ting; HUANG, Paul

C999 Oxygen Index
ASTM D2863
BS EN ISO 4589-2
(16.5 to 60) %

Approval Signatory: CHEN, Chih-Chiang; TSENG, Yu-Ting; HUANG, Paul



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C999 Toxicity Index
NES 713
Defence Standard 02-713
0.03 to 150

Approval Signatory: CHEN, Chih-Chiang; TSENG, Yu-Ting; HUANG, Paul

T999 Temperature Index (Flammability Temperature)
BS EN ISO 4589-3
(25 to 400) °C

Approval Signatory: CHEN, Chih-Chiang; TSENG, Yu-Ting; HUANG, Paul

18.05 Commodity
Wires, Cables
C196 Smoke Density (Cables Burning Test)
IEC 61034-1
IEC 61034-2
BS EN 61034-2
Transmittance: (55 to 100) %

Approval Signatory: KU, Yat-Sen; CHIN, Chen-Chiang; TSENG, Yu-Ting; HUANG, Paul

E007 Conductor Resistance Test
CNS 679
CNS 687
CNS 689
CNS 2655
CNS 3301
CNS 4898
CNS 10314
CNS 11359
JIS C 3005
JIS C 3307
JIS C 3342
JIS C 3401
JIS C 3605
IEC 60228
IEC 60502-1
National Fire Agency Fire Resistant Cable Approval Standard
National Fire Agency Heat Resistant Wire Cable Approval Standard
1 mΩ to 59 Ω
Solid: (0.5 to 5.0) mm
Strand: (0.75 to 1000) mm²

Approval Signatory: CHIN, Chen-Chiang; HUANG, Chin-I

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E007 Insulation Resistance Test

CNS 679

CNS 687

CNS 689

CNS 2655

CNS 3301

CNS 4898

CNS 11359

CNS 10314

JIS C3005

JIS C3307

JIS C3342

JIS C3401

JIS C3605

IEC 60502-1

National Fire Agency Fire Resistant Cable Approval Standard

National Fire Agency Heat Resistant Wire Cable Approval Standard

1 M Ω to 100 G Ω

Solid: (0.5 to 5.0) mm

Strand: (0.75 to 1000) mm²

Approval Signatory: CHIN, Chen-Chiang; HUANG, Chin-I

E007 A.C. Voltage Test

CNS 679 Sec.5.4.1

CNS 687 Sec.8.1, Sec.8.2

CNS 689 Sec.8.1, Sec.8.2

CNS 2655

CNS 3301

CNS 4898

CNS 10314 Sec.6.4.1

CNS 11359

JIS C3005 Sec.4.6.a, Sec.4.6.b

JIS C3307 Sec.6.4.a

JIS C3342 Sec.6.4.a, Sec.6.4.b

JIS C3605 Sec.6.4.a, Sec.6.4.b

JIS C3401

IEC 60502-1

National Fire Agency Fire Resistant Cable Approval Standard Sec.6.4

National Fire Agency Heat Resistant Wire Cable Approval Standard Sec.5.4

(1 to 15) kV

Solid: (0.5 to 5.0) mm

Strand: (0.75 to 1000) mm²

Approval Signatory: CHIN, Chen-Chiang; HUANG, Chin-I



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M002 Tensile Strength and Elongation Test

CNS 689
CNS 3301
CNS 11359
CNS 10314
CNS 2655
CNS 4898
CNS 679
JIS C3005
JIS C3307
JIS C3342
JIS C3605
JIS C3401
IEC 60502-1
IEC 60811-1-1: 1993 (2001)
IEC 60811-501
National Fire Agency Fire Resistant Cable Approval Standard
National Fire Agency Heat Resistant Wire Cable Approval Standard
(5 to 450) kgf

Approval Signatory: KU, Yat-Sen; CHIN, Chen-Chiang; TSENG, Yu-Ting

M017 Inspection for Construction (Dimension Check)

CNS 668
CNS 687
CNS 689
CNS 1370
CNS 2655
CNS 5745
JIS C3005
JIS C3002
IEC 60502-1
IEC 60811-1-1: 1993 (2001)
IEC 60811-201
IEC 60811-202
IEC 60811-203
Solid Conductor: (0.5 to 5.0) mm
Strand Conductor: (1.5 to 1000) mm²

Approval Signatory: KU, Yat-Sen; TSENG, Yu-Ting; HUANG, Paul



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M021 Aging Test

CNS 679
CNS 689
CNS 2655
CNS 3301
CNS 4898
CNS 10314
CNS 11359
JIS C3005
JIS C3307
JIS C3342
JIS C3401
JIS C3605
IEC 60502-1
IEC 60811-1-1: 1993 (2001)
IEC 60811-1-2: 1985 (2000)
IEC 60811-501
IEC 60811-401
National Fire Agency Fire Resistant Cable Approval Standard
National Fire Agency Heat Resistant Wire Cable Approval Standard
(90 to 200) °C

Approval Signatory: KU, Yat-Sen; CHIN, Chen-Chiang; TSENG, Yu-Ting

M033 Oil-Immersion Test

CNS 689
CNS 679
CNS 2655
CNS 3301
CNS 4898
CNS 11359
JIS C3005
JIS C3307
JIS C3342
JIS C3401
JIS C3605
IEC 60502-1
IEC 60811-1-1: 1993 (2001)
IEC 60811-2-1: 1998 (2001)
IEC 60811-501
IEC 60811-404
National Fire Agency Fire Resistant Cable Approval Standard
National Fire Agency Heat Resistant Wire Cable Approval Standard
(50 to 180) °C
Test Oil: IRM 902

Approval Signatory: KU, Yat-Sen; TSENG, Yu-Ting



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T002 Fire Resistant Test
CNS 11359 Sec.5.10.1
IEC 331 (1970)
IEC 60331-11
IEC 60331-21
IEC 60331-23

Approval Signatory: KU, Yat-Sen; CHIN, Chen-Chiang

18.05 Commodity
Copper Wires, Aluminum Wires
M002 Tension (Tensile Strength, Elongation, Tension Load)
CNS 1370
CNS 5745
JIS C3002
Solid: (25 to 450) kgf
Strand: (100 to 1400) kgf

Approval Signatory: KU, Yat-Sen; TSENG, Yu-Ting; HUANG, Paul

18.05 Commodity
Wires, Cables, Optical Fiber Cables
T001 Vertical Flame Spread Test
CNS 15130-3-21
CNS 15130-3-22
CNS 15130-3-23
CNS 15130-3-24
CNS 15130-3-25
IEC 60332-3-21
IEC 60332-3-22
IEC 60332-3-23
IEC 60332-3-24
IEC 60332-3-25

Approval Signatory: KU, Yat-Sen; CHIN, Chen-Chiang

T001 Vertical Tray Flame Test
IEEE 383 (1974) Sec.2.5

Approval Signatory: KU, Yat-Sen; CHIN, Chen-Chiang

(Null below)