



■ Edition 7.

CABLES, WIRES & ACCESSORIES

大域科技股份有限公司

TA YU SCIENCE Co., Ltd



INTRODUCTION

With our new main catalog "Cables & Wires" you are holding in your hands a version that has been revised in visual presentation as well as in content. Our objective was and is to guide you more quickly to your desired product.

We are proud of the fact that in the areas of industrial and infrastructure cables we are uniformly well-positioned with high in-stock availability.

大域科技股份有限公司
TA YU SCIENCE Co., Ltd



大域科技致力於品牌經營, 1992 年正式註冊/登記商標 **MAP®**。

『專業服務, 客戶至上』是我們的宗旨。提供客戶高水準的『價格、服務、交期』為使命。

『深耕台灣, 放眼全球』是大域秉持的核心價值 (Act Locally, Think Globally)

我們持續地耕耘, 用心經營 **MAP®** 的品牌價值與形象。



TAYUKABEL®

大域科技致力於品牌經營, 2020 年正式註冊/登記商標 TAYUKABEL®。

專注大型工程案件而設立 TAYUKABEL® 品牌。

產品規格涵蓋: 低煙無鹵軌道電纜(EN 45545-2 認證)、各類訊號電纜、特殊電力電纜。

銷售實績: 中國石油煉油廠、交通部臺灣鐵路管理局、臺北大眾捷運股份有限公司、

台灣電力股份有限公司、中國鋼鐵股份有限公司。

John Huang

Chief Executive Officer

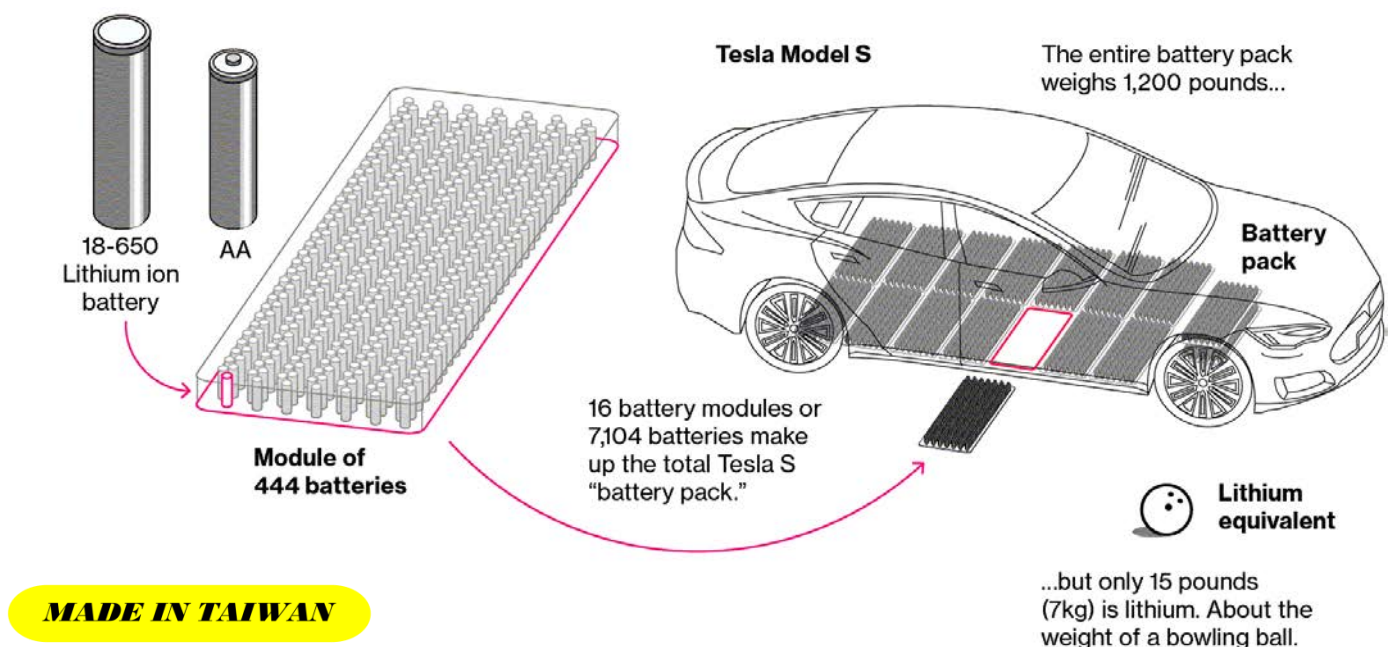
【EV CABLE 新能源 電動車電纜】



鑒於電動汽車技術發展迅速，大功率電動汽車對更高電壓的應用需求大幅成長。
大域科技提出應用方案(AWM3644/AWM3858/AWM4476)，滿足電動車【三電的配置】設計與需求。

說明： 電動車三電應用即『**電源/電池系統**』、『**電驅系統**』、『**電控系統**』。

電動車電纜線以矽橡膠 SILICONE 與 XLPE (Cross-Link PE) 作為耐高壓電纜絕緣材料。



【RAILWAY CABLE EN 45545-2 LSFH】



TAYUKABEL® LSHF CABLE SOLUTION 【498K-1320 SERIES CABLE】

The 498K-1320 series cable applies to railways, like as : Taiwan Railway Bureau of the Ministry of Transportation, Taipei MRT Corporation, Taoyuan Airport MRT, and other transportation systems.

TAYUKABEL® 498K-1320 series is manufactured in accordance with EN-45545-2 Orbital LSZH specification.

EN 45545-2:2020 R15/R16 Railway cable flame and smoke toxicity standard:

EN 45545-2 standard is divided into R15, R16 according to the end use of wire and cable.

EN 45545-2 【R15 cable for internal; use】、【R16 cable for external use】.

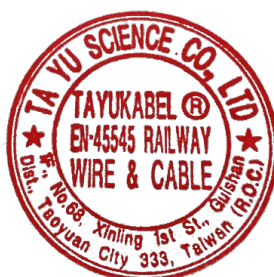
EN 45545-2:2020 R15/R16 Test items:

【EN 60332-1-2】 Cable single vertical burning test

【EN 60332-3-24】 Vertical burning test of multiple bundles of cables

【EN 61034-2】 Cable smoke density test, light transmittance $\geq 70\%$

【EN 50305 9.2】 Cable toxicity test ITC<6



Railway Train Cabin Category



Hazard level classification

Vehicles have fire hazard classes from HL1 to HL3 due to different types of operation and design. Among them, HL3 has the highest fire risk.

Operation category	Design category			
	N: Standard Vehicles	A: Vehicles forming part of an automatic train having no emergency trained staff on board.	D: Double decked vehicle	S: Sleeping and couchette vehicles
1	HL1	HL1	HL1	HL2
2	HL2	HL2	HL2	HL2
3	HL2	HL2	HL2	HL3
4	HL3	HL3	HL3	HL3

Design category

N: Standard Vehicle

A: Vehicles forming part of an automatic train have no emergency-trained staff on board.

D: Double-decked vehicle

S: Sleeping and couchette vehicles

Operation category

◆ Operation Category 1:

Vehicles for operation on infrastructure where railway vehicles may be stopped with minimum

delay, and where a safe area can always be reached immediately.





大域科技股份有限公司 產品線

TA YU SCIENCE Co., Ltd

PRODUCT LINE

製品ラインの紹介



LHH 海巴龍電線 (電力出口線)
經銷品牌:大東 x 太平洋 x 華新麗華



DISC 靜電噴槍高壓電纜:MIT 專業製造
耐電壓 80KV / 120KV



EMI 隔離電纜: CNS 認證 MIT 專業製造
經銷品牌:太平洋/華新麗華/



UL2464 隔離電腦線: MIT 專業製造

高扭性/耐彎曲 拖鏈系統電纜
フレキシブルケーブル



拖鏈系統/機械手臂/自動化設備電纜
耐油/耐屈 UL2517 認證 MIT 專業製造



UL Verify Ethernet Cable

Customized Any Color Sheath

MAP® UL認證 乙太網路電纜 イーサネットケーブル

乙太網路區域電纜: MIT 專業製造
品牌:MAP®/太平洋/AMP/COMSCOPE



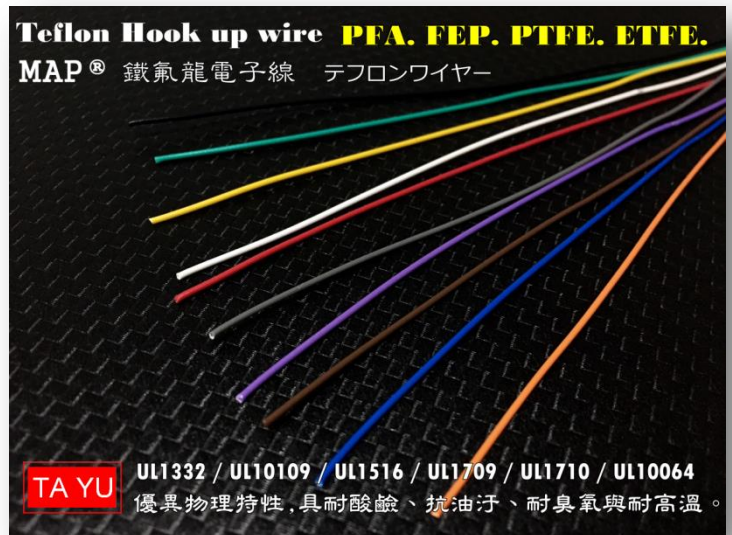
HDMI 高傳輸電纜: UL 認證 MIT 專業製造



Hi-End Audio 發燒線: MIT 專業製造



可變電阻器 VR: 美國 CTS/日本 TOCOS



AWM 鐵氟龍電子線:MIT 專業製造



矽橡膠耐熱電纜: UL 認證 MIT 專業製造



太陽能/風力渦輪電纜: BELDEN. ALPHA.



電源線: UL/PSE/VDE 認證 MIT 專業製造



D-SUB /VGA 訊號線:UL 認證 MIT 專業製造



紅白平型花線: UL/CSA 認證 MIT 專業製造



OFC 無氧銅 柔軟喇叭線: MIT 專業製造



高傳真數位話纜(電話線): MIT 專業製造



日規 HIFI 麥克風訊號平衡線:MIT 專業製造



同軸通信電纜 :UL 認證 MIT 專業製造



工業 4.0 物聯網複合電纜 :MIT 專業製造



矽橡膠編織耐熱線: UL 認證 MIT 專業製造



Nylon 尼龍電子線: AWM 1316.1317.1010.



Cat.7耐曲 300 萬次網路線：MIT 專業製造



Multi-Channel 多軌麥克風線：MIT 製造



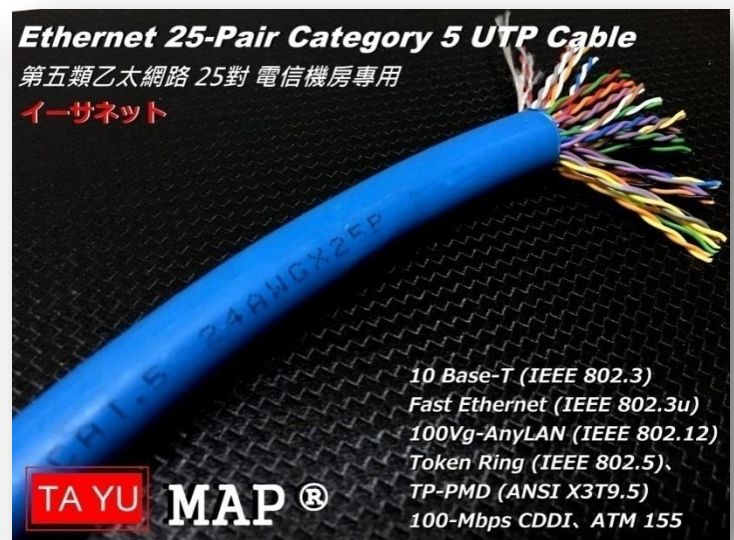
工業控制乙太網路線加工：MIT 專業製造



鎧裝 / 船舶甲板 低煙耐油電纜: BELDEN



CSA 細蕊控制線電纜：MIT 專業製造



電信機房網路線 25P/100P：MIT 專業製造



高傳真數位話纜(電話線) : MIT 專業製造



無鹵素電線 AWM 3321.3385.3386



美規/歐規拖車 四併線 : 【皮卡拖車電纜】



網路監控攝影機複合電纜 : MIT 專業製造



IATF 16949 汽車花線 : MIT 專業製造



低煙無鹵軌道電纜 EN45545-2 : MIT 製造



網路線+電源線 複合電纜：MIT 專業製造



軍規/航太設備適配電纜：MIT 專業製造



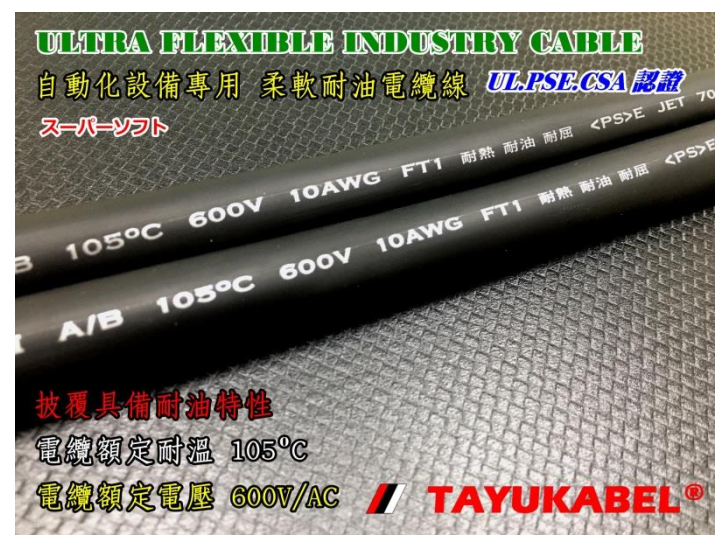
110 歐姆數位訊號：DMX-512【AES/EBU】



極地耐寒-40°C 複合電纜：MIT 專業製造



PE 屋外防水網路線：MIT 專業製造



耐油/耐屈/耐熱 CSA 超軟線：MIT 專業製造



軌道 EN 45545-2 通訊電纜：MIT 專業製造



醫療級/工業級：【PUR. TPU】無鹵電纜線



【IDC 刺破式連接器】. 【IX 工業級連接器】



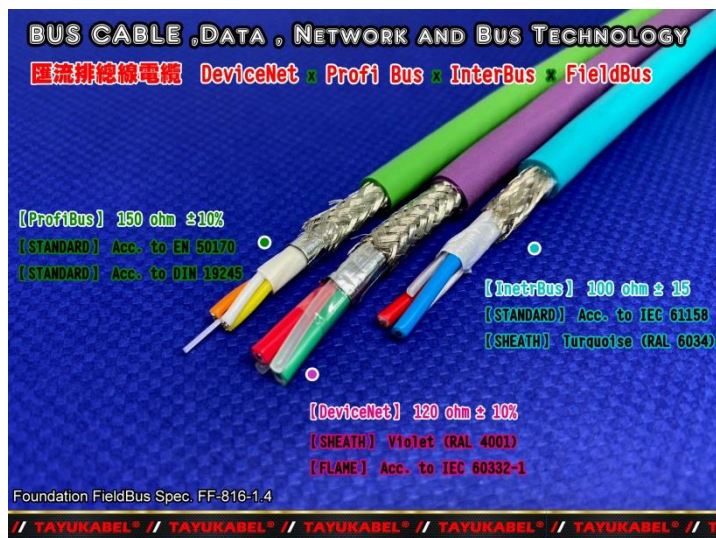
舞台流動演出：【XLR CANNON 線】



鐵氟龍電纜：AWM 20813.20146.20262



電動車/鋰電池專用：矽橡膠 AWM 4476



CAN-BUS 【DeviceNet x ProfiBus x InterBus】



EV CABLE 【新能源電纜/電動車電纜】



UL 認證 TPE CABLE 環保無鹵電纜



Marine Feeder Cable 船舶電力饋線



UL1979 鐵氟龍同軸電纜(RG316)



麥克風平衡訊號線+電源複合電纜



TPEE-TPV 高速繞曲電纜(工具機專用線)



ISO 10993 生物相容性電纜 Biocompatibility



MAP® Thermocouple Wire 補償導線



UL 認證 伺服馬達電纜 105°C 600V



MAP® 高電流負載汽車電源線【透明線】



TAYUKABEL® EN 45545-2 軌道車輛電纜



Cat.5e FTP +0.75mm²x2C+Y 3合1複合線



PV CABLE 【PHOTOVOLTAIC 光伏線】



DESINA® CABLE 工業自動化設備電纜



CC-LINK CABLE 【三菱 PLC 專用電纜】



螺旋電纜 Polyurethane 【PUR】 Spiral Cable



TAYUKABEL® EN 45545-2 軌道電纜與連接器



NIPPON 高壓點火線【SPARK CABLE】



車規級 120 ohm 匯流排電纜【SAE J 1939】



流動演出 揚聲器導線【OFC SPEAKER CABLE】



【ROV CABLE】SUBMARINE 浮水線 x 海底電纜



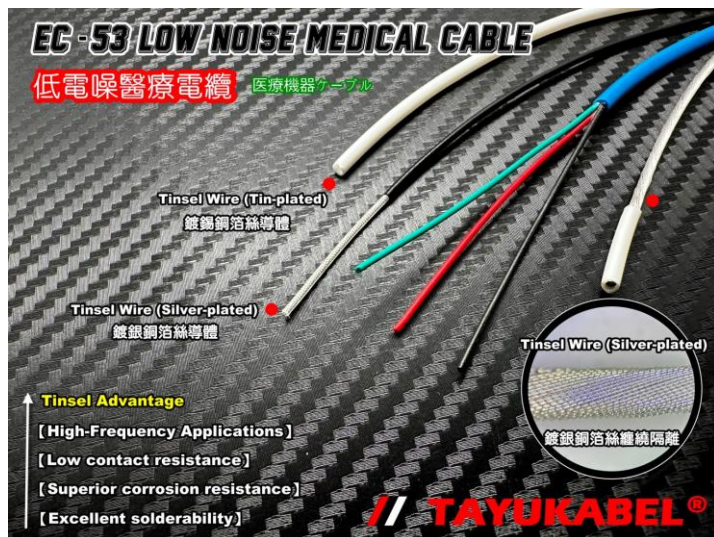
【MIL-STD-810H】軍規認證 鐵氟龍電纜



【MIL-STD-810H】軍規認證抗 UV 乙太電纜



【MIL-STD-810H】軍規認證 耐鹽霧 船舶電纜



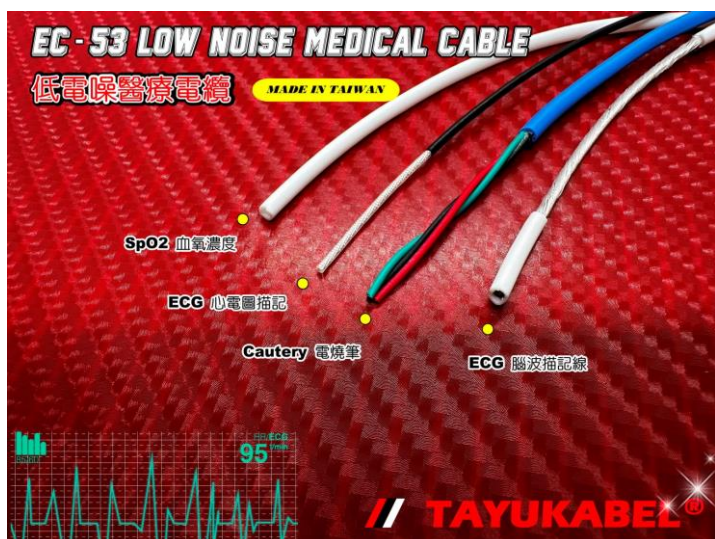
【LOW NOISE CABLE】低電噪醫用電纜



【RIBBON CABLE】扁型多併 網路電纜



【編碼器電纜】M12 PLUG+ENCODER CABLE



【MEDICAL 醫療線】ECG / EEG / SpO2 導線



【EN 45545-2】軌道應答子電纜 Balise

N° 2023/107590.1

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AFNOR Certification certifies that the management system implemented by:
AFNOR Certification certifie que le système de management mis en place par :

TA YUSCIENCE CO. LTD

大域科技股份有限公司

for the following activities:
pour les activités suivantes :

MANUFACTURING OF WIRE AND CABLE.
電線及電纜之製造。

has been assessed and found to meet the requirements of:
a été évalué et jugé conforme aux exigences requises par :

ISO 9001 : 2015

and is developed on the following locations:
et est déployé sur les sites suivants :

NO. 68, XINLING 1ST ST., XINLING VIL. GUISHAN DIST., TAOYUAN CITY 333, TAIWAN (R.O.C.)
333 桃園市龜山區新嶺里新嶺一街 68 號
NO. 62-1, SANJIAO, SANJIAO VIL., DALIN TOWNSHIP, CHIAYI COUNTY 622, TAIWAN (R.O.C.)
622 嘉義縣大林鎮三角里(三角)62-1 號

This certificate is valid from (year/month/day)
Ce certificat est valable à compter du (année/mois/jour)

2023-12-27

Until
jusqu'au

2026-12-26



Ce document est signé électroniquement. Il constitue un original électronique à valeur probatoire.
This document is electronically signed. It stands for an electronic original with probatory value.

Julien NIZRI
Managing Director of AFNOR Certification
Directeur Général d'AFNOR Certification



Scan this QR code to
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*Flashez ce QR Code
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Accréditation COFRAC n° 4-0001, Certification de Systèmes de management, Portée disponible sur www.cofrac.fr.
AF-AQ is a registered trademark. AFAQ est une marque déposée. CERTIF 0956.9-EN 07/2020

KONFORMITÄTSBESTÄTIGUNG

STATEMENT OF CONFORMITY



Applicant TA YU SCIENCE CO., LTD
Applicant Address IF., No. 68, Xinling 1st St., Guishan Dist., Taoyuan City 33349, Taiwan
Product TAYUKABEL® 498K-1320 SERIES RAILWAY WIRE&CABLE
Further Information EN 45545-2 R15 (HL1,HL2,HL3) and R16(HL1,HL2,HL3)

Based upon a single test of one or several product samples, compliance with the requirements of the following test basis is confirmed. Detailed results are provided in the test report.

Test Basis
DIN EN 45545-2:2023-12;
EN 45545-2:2020+A1:2023 table 6 reference:
T09.01:
DIN EN 60332-1-2 (VDE 0482-332-1-2):2022-07;
EN 60332-1-2: 2004+A12:2020
DIN EN 60332-1-2 (VDE 0482-332-1-2):2017-06;
IEC 60332-1-2:2004 + A1:2015
T09.03:
DIN EN 50305 (VDE 0260-305):2021-01 cl. 9.1.1;
EN 50305:2020
DIN EN IEC 60332-3-25 (VDE 0482-332-3-25):2019-05;
IEC 60332-3-25:2018
DIN EN IEC 60332-3-24 (VDE 0482-332-3-24):2019-05
IEC 60332-3-24:2018
T13:
DIN EN 61034-2 (VDE 0482-1034-2):2021-02;
EN 61034-2:2005+A2:2020
T15:
DIN EN 50305 (VDE 0260-305):2021-01 cl. 9.2;
EN 50305:2020
DIN EN 60754-2 (VDE 0482-754-2):2021-02;
IEC 60754-2:2011+AMD1:2019
DIN EN 60754-1(VDE 0482-754-1):2021-02;
IEC 60754-1:2011+AMD1:2019
DIN EN 60684-2 (VDE 0341-2):2012-05 cl. 45.2;
IEC 60684-2:2011

Test Report No. TC.22.09.005369/TC.25.01.000026/ TC.22.11.006501-R₁/TC.24.10.004630

Authorized Signatory:

Wayne Wang

Date: 2025-01-16

Valid Until (*): 2027-10-13

Note: This document has to be read in conjunction with the Test Reports listed above, for the description of the product and for every other detail. This document does not represent type approval or certification of the product neither declaration of compliance, that is exclusively under the responsibility of the Manufacturer or Sponsor. (*)Where this assessment covers a system used on European rolling stock covered by the Technical Specification for Interoperability (TSI) (Commission Regulation (EU) No. 1302/2014)) all tests must have been conducted within the last 5 years or the test reports must have been reviewed within the last five years.

Certificate of Compliance

Certificate Number:

[E334926]

Report Reference:

E334926-20230929

Issue Date:

2024-AUGUST-28

Issued to:

TA YU SCIENCE CO LTD

No. 68 Xinling 1st St Guishan District

Taoyuan 33349 TW

This certificate confirms that representative samples of:

APPLIANCE WIRING MATERIAL - COMPONENT

See addendum page for models

Have been evaluated by UL in accordance with the component requirements in the Standard(s) indicated on this Certificate. UL Recognized components are incomplete in certain constructional features or restricted in performance capabilities and are intended for installation in complete equipment submitted for investigation to UL LLC

[UL 758 - Appliance Wiring Material]

Additional Information:

See UL Product iQ® at <https://iq.ulprospector.com> for additional information.

This Certificate of Compliance indicates that representative samples of the product described in the certification report have met the requirements for UL certification. It does not provide authorization to apply the UL Recognized Component Mark. Only the Authorization Page that references the Follow-Up Services Procedure for ongoing surveillance provides authorization to apply the UL Mark.

Only those products bearing the UL Recognized Component Mark should be considered as being UL Certified and covered under UL's Follow-Up Services.

Look for the UL Recognized Component Mark on the product.



David Piecuch

UL Mark Certification Program Owner

This is to certify that representative samples of the product as specified on this certificate were tested according to the current UL requirements.



Any information and documentation involving UL Mark services are provided on behalf of UL LLC (UL) or any authorized licensee of UL. For questions, please contact UL Solutions Customer Service at <https://www.ul.com/contact-us>.



Certificate No.
10.16.0804

Date of Issue
07/07/2022

Valid From
07/07/2022

The Certificate is valid until
06/07/2032

CERTIFICATE OF CONFORMITY

FULLNESS EXAMINATION OF TECHNICAL FILE

Applicant (Name & Address)	TA YU SCIENCE Co., Ltd./ 1F., No. 68, Xinling 1st St., Guishan Dist., Taoyuan City 333, Taiwan (R.O.C.)
Manufacturer (Name & Address)	TA YU SCIENCE Co., Ltd./ 1F., No. 68, Xinling 1st St., Guishan Dist., Taoyuan City 333, Taiwan (R.O.C.)
TCF No.	TY-2022001-A1
Product Description	EN-45545-2 COMMUNICATION CABLE
Model(s)	498K-1320-1, 498K-1320-X1 (X1=1~15)
Directive(s)	2014/30/EU Electromagnetic Compatibility Directive
Standard(s)	EN 55035:2017/A11:2020, EN 55032:2015/A11:2020

This is to certify that, upon the relevant application of the above-mentioned applicant, EUROCERT as Third-Party Authority has reviewed the Technical Construction File of the described product, which found to fulfill the basic health and safety prerequisites of above-mentioned Directive(s).

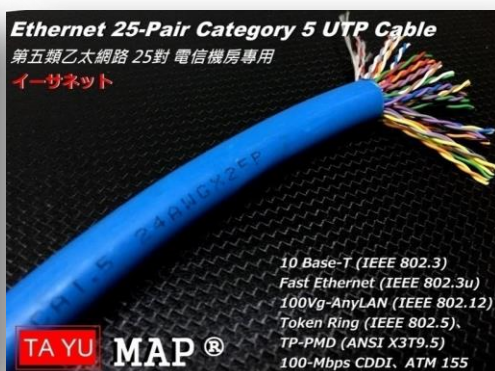
Note:

- The manufacturer should issue a Declaration of Conformity according to the basic requirements of the applicable standards and relevant directives.
- The CE marking can be affixed on the above-mentioned product with the manufacturer's responsibility, if all relevant and applicable directives are complied with.
- All modifications to the Technical File should be first submitted to the Third-Party Inspection Authority to ensure further validity of this attestation
 - This certificate is valid only for the product and configuration described and in conjunction with the technical data detailed above.



Check the validity of the Certificate by scanning the QR code at right.
EUROCERT S.A. 89 Chlois & Lykovriseos str., 144 52, Metamorphosi – Greece
T +30 210 62.52.495, +30 210 62.53.927, F +30 210 62.03.018, M eurocert@otenet.gr





【桃園總公司】 333 桃園市龜山區新嶺一街 68 號
TEL: 03-329-8989 FAX: 03-329-7811

【嘉義大林廠】 622 嘉義縣大林鎮三角 62-1 號
TEL: 05-295-1827 FAX: 05-295-3304

Line ID: @bie6374d 官方帳號搜尋: 大域科技

Tayui.com.tw