



Digital

100% COVERAGE!!

3070101758

Broadcast Studio Installation Touring CONTROL

AL+DW ICShield BD

DMX-512線纜經常被使用者以麥克風線取代,這是錯誤的做法!
DMX-512線纜具有以下幾個特點,強烈建議專導專用,

1. 特性阻抗為110 OHM
2. 傳送信號為0或1的數字信號
3. 經常與AC 220V/110V等高電壓長距離平行布線
4. 線間絕緣特性要較好,以降低線間電容
5. 在長距離後,如果線間電容過大,會造成無法及時放電,而造成誤碼!
建議以雙屏蔽型式,以加強抵抗外來電磁波的干擾,並於終端加上終端電阻以提高迴路的穩定度!
此種線纜並可應用於AES/EBU數字音頻傳輸的使用
也因為其較低的電容,應用於類比音頻信號,上也完全相容,甚至更好
*我們提供3070100111一般PE和3070101758 XLPE兩種型號,於本公司採購成品線纜使用 3070100111一般型PE較為細的。

DMX-512 cable is often replaced by microphone cable by users. This is a wrong way!
DMX-512 cable has the following characteristic, it is strongly recommended the special cable only for special usage.

1. The characteristic impedance is 110 ohm
2. Transmission signal is "0" or "1" digital signal
3. Often parallel-lying with AC 220V/110V such high voltage in long distance
4. The insulating property between wire is better, to reduce capacitance between wire.
5. In long-distance supposed the capacitance between wire is too large, it will cause being not timely discharged, thus bit error involved.

Recommendation is using double-shield type, to strengthen against external electromagnetic wave interference and adding terminating resistor in terminal for improving the stability of loop! Such type of cable can be applied to the usage of AES/EBU digital audio transmission too. Due to its low capacitance, applied to the analog audio signal is also fully compatible, and even better.

*We offer 3070100111 general PE and 3070101758 XLPE two types of resistance to soldering. Purchasing finished cable in our company we recommend to use 3070100111 general PE type would be more economy.



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適合於工程上布放使用,較細的外殼,可節約管道空間,
配置交連PE內芯,有效控制了特性阻抗,
Available for the usage of engineering fitting, Can save pipeline space by thinner jacket,
Effectively control the characteristic impedance on conductor of the fitted XLPE.

| ITEM NO.型號 | 3070100111 | 3070101758 (XLPE) | 3070101798 (XLPE) |
|---------------------------|---|---|--|
| JACKET COLOR 顏色 | BLACK | 10 COLORS | 10 COLORS |
| CONDUCTOR 導體 | (20/0.12+PE 1.8)*2C | (20/0.12+XLPE 1.8)*2C | (7/0.18+XLPE 6)*2C |
| JACKET OD.外徑 | 60mm | 6.0mm | 4.0mm |
| WIRE INFORMATION | (20/0.12+PE 1.8)*2C+ AL+DW/7/0.20TC+ | 2*Q/0.12+XLPE 1.8)*2C+ AL+DW/7/0.20TC+ | (7/0.18+XLPE 6)*2C+ AL+DW/7/0.18 + NYLON WIRE+ |
| 線材資料 | BDL 6*9/0.10 TC | BDL 6*9/0.10 TC | AL+DW 7/0.18 |
| MAIN CONDUCTOR AWG 主要導體直徑 | 24AWG 0.226mm ² | 24AWG 0.226mm ² | 25AWG 0.178mm ² |

ELECTRICAL PERFORMANCE 電氣性能

| | | | |
|--|-------|----------------|--------------------|
| Cond. D.C.R. ohm/1km 導體電阻/1km | 93.25 | Less than 79.7 | Less than 101+/-5% |
| Shield D.C.R. ohm/1km 屏蔽層電阻/1km | 22.94 | Less than 16.5 | Less than 90.9 |
| Nom.Cap (pF/m)between conductors 導體間電容量 | 50.5 | Less than 126 | 172.3 +/-5% |
| Nom.Cap (pF/m)between conductors/shield 導體/屏蔽層間電容量 | 90.8 | Less than 132 | Less than 173 |
| Voltage Breakdown 絕緣承受電壓 | 300V | 300V | 300V |

MECHANICAL PERFORMANCE 機械性能

| | | | |
|--|---------------------------------|---------------------------------|---------------------------------|
| FlexLife Number of times load 500g +/-30° 搖晃壽命次數 負載 500g 角度 +/-30° | --- | Better than 3800 | Better than 690 |
| Tensile Strength (26°C, 65%RH) 拉伸斷裂力量 | --- | Better 99kgf | Better than 54kgf |
| Applicable Temperature 建議工作溫度 | -20°C- +60°C (-4°F- +140°F) | -20°C- +60°C (-4°F- +140°F) | -20°C- +60°C (-4°F- +140°F) |
| Peak Temperature 極限工作溫度 | -40°C- +70°C (-40°F- +158°F) | -40°C- +70°C (-40°F- +158°F) | -40°C- +70°C (-40°F- +158°F) |
| 100Mweish/100M 重量(kg) | 5.0 | 5.1 | 1.8 |

COLOR & ORDER INFORMATION 色彩與訂購資訊

COLOR & ITEM
顏色與品名

| | | |
|----------|------------|------------|
| 黑 BLACK | 3070101750 | 3070101790 |
| 棕 BROWN | 3070101751 | 3070101791 |
| 紅 RED | 3070101752 | 3070101792 |
| 橙 ORANGE | 3070101753 | 3070101793 |
| 黃 YELLOW | 3070101754 | 3070101794 |
| 藍 BLUE | 3070101755 | 3070101795 |
| 綠 GREEN | 3070101756 | 3070101796 |
| 紫 PURPLE | 3070101757 | 3070101797 |
| 灰 GRAY | 3070101758 | 3070101798 |
| 白 WHITE | 3070101759 | 3070101799 |



Digital
Broadcast Installation Touring CONTROL
AL+DW Shield BD

兩對型DMX-512 線纜,是兩兩對絞後再成纜, 各對自行負擔一組DMX-512路的傳輸,因此千萬不要與星絞話筒線混用 同樣是雙屏蔽型式,以加強抵抗外來電磁波的干擾

Two pairs type DMX-512 is two two-pairs twisted into cable Each pair itself would burden one group of DMX-512 channel transmission. So please don't mix with star quad microphone cable Same type of double-shielded to strengthen resistance of external electromagnetic interference.



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AL+DW

特別為了傳統燈具換色器所設計的電纜,提供了 DC 48V以下可使用的2C電源達10A 及可傳送DMX-512/RS-485的一對線,可以提供傳統燈具換色器較好的運作環境 每一換色器30W 可推動 14只 @DC48V 8只 @DC24V 4只 @DC12V

The cable is particularly designed for traditional lighting color changer Providing less than DC48V, can be used on 2C power supply up to 10A DC48V And available to transmit DMX-512/RS-485 one pair cable Can supply traditional lighting color changer with good operation environment Each color changer 30W can move 14pcs. @DC48V 8pcs. @DC24V 4pcs. @DC12V

| | | | |
|--|---|--|---|
| ITEM NO.型號 | 3070100147 | 3070101788 (XLPE) | 3071100011 |
| JACKET COLOR 顏色 | BLACK | GREY | GREY |
| CONDUCTOR.導體 | (20/0.12+PE 1.65)*2PAIR | (20/0.12+XLPE 1.65)*2PAIR | DC POWER: (41/0.16+PVC2.3)*2C DMX: [7/0.20TC+PVC 1.5]*2C |
| JACKET OD.外径 | 8.0mm | 8.0mm | 7.0mm |
| WIRE INFORMATION 線材資料 | (20/0.12)+PE 1.65)*2PAIR+ AL+DW7/0.20TC+ BD16*9/0.12 TC | (20/0.12+XLPE 1.65) *2PAIR+AL+DW7/0.20TC+ BD16*9/0.12 TC | [7/0.20TC+PVC 1.5]*2C +AL+DW 7/0.20TC+ (41/0.16+PVC2.3)*2C+PVC7.0 |
| MAIN CONDUCTOR AWG 主要導體直徑 | 24AWG 0.226mm ² | 24AWG 0.226mm ² | 24AWG 0.22mm ² 18AWG 0.823 mm ² |
| ELECTRICAL PERFORMANCE 電氣性能 | | | |
| Cond.D.C.R. ohm/1km 導體電阻/1km | Less than 87.5 | Less than 80 | DMX:23.06 / POWER:90.76 |
| Shield D.C.R. ohm/1km 屏蔽層電阻/1km | Less than 18.1 | Less than 18.1 | DMX:90.76 |
| Nom.Cap.(pF/m)between conductors. 導體間電容量 | Less than 111.2 | Less than 135.2 | DMX:59.94 |
| Nom.Cap.(pF/m)between conductors/shield 導體/屏蔽層電容量 | Less than 116.7 | Less than 152.1 | DMX:120.5 |
| Voltage Breakdown 絕緣承受電壓 | 300V | 300V | DMX:300V / POWER: 300V |
| MECHANICAL PERFORMANCE 機械性能 | | | |
| Flex Life Number of times load 500g +/-30° 搖晃壽命次數 負載 500g 角度 +/-30° | Better than 58800 | Better than 98700 | --- |
| Tensile Strength (26°C, 65%RH) 拉伸斷裂力量 | Better than 76kgf | better than 64.7kgf | --- |
| Applicable Temperature 建議工作溫度 | -20°C~ +60°C (-4°F~ +140°F) | -20°C~ +60°C (-4°F~ +140°F) | -20°C~ +60°C (-4°F~ +140°F) |
| Peak Temperature 極限工作溫度 | -40°C~ +70°C (-40°F~ +158°F) | -40°C~ +70°C (-40°F~ +158°F) | -40°C~ +70°C (-40°F~ +158°F) |
| COLOR & ORDER INFORMATION 色彩與訂購資訊 | | | |
| 100Mweight/100M 重量(kg) | 7.7 | 8.3 | 5.7 |

INFO 專業知識

SUNRISE 兩對型DMX線
導體絕緣約1.65mm
SUNRISE two pairs DMX CABLE
Conductor insulation around 1.65mm



DMX CABLE 110 ohm

OH!
Just a little bit difference is different
in using the same PE material
In order to achieve different impedance
between two products
Must properly adjust and control insulation.
第一點點就覺得多變!在使用同樣PE材料上,
為達到兩者特性阻抗不同,
必需徹底調節與控制絕緣厚度

SUNRISE S-2T2S 低噪線
導體絕緣約1.81mm
SUNRISE S-2T2S Microphone Cable
Conductor insulation around 1.81mm



MICROPHONE CABLE 75 ohm