



UL 2725 ELECTRONIC CABLE IEEE1394 80°C 30V

數位傳輸訊號電纜

Conductor: 導體

- Fully annealed strand bare or tinned copper wires according to ASTM B-33. 全部為軟銅絞線或鍍錫軟銅線依照 ASTM B-33 規範
- Complex type of conductor were available 可依傳輸之需要，摻雜使用多種不同之導體

Insulation: 絕緣體

- Semi-Rigid PVC for UL 1061 signal control wires
UL 1061 使用半硬質 PVC，做為信號控制線
- Premium grade PP, PE, PEF, FR-PE or XLPE for UL 1589, UL 1640 or another style data transmission wires.
UL 1589, UL 1640 等可使用 PP, PE, PEF, FR-PE 或 XLPE 等不同之絕緣材質，做為數位傳輸線

Assembly: 芯線集合

- Cable cores may be twisted with pairs, triads quads or multi-cores or groups of twisted singles at the discretion of the customer.
電纜芯線之集合排列，可依客戶之需要以對型、三絞型、星型、多芯型或簇型等方式組成。

Shield: 遮蔽層

- Individually shield, overall shield or another manner of shield may be applied on the cable cores.
電纜芯型之遮蔽，可用個別遮蔽、整體遮蔽或其他適當之遮蔽方式。

Twisted insulated singles of cable : 電纜芯線組合

- The material of shield may be with Al-Mylar foil, copper wire braiding or copper wire spiral wrapping
遮蔽材質可以使用鋁箔麥拉帶，銅線編織或銅線繞捲。

Jacket: 被覆體

- PVC
- Beige, gray or black at the discretion of purchaser.
顏色(貝桔，灰或黑)依客戶決定。

Applications: 應用

- Computers interconnections
電腦系統連接線
- Data transmission
數據傳輸系統線路
- Industrial electrical equipments
工業用電子設備系統線路
- Internal wiring of class 2 systems
電子設備二次迴路傳輸線路之內部配線。

Industry Approvals: 產品認證

- UL Style 2725 CM File No.E117873 & No.E147067.
- CSA AWM FT4 NO. LL82009.
- Passes UL VW-1 Vertical Flame Test.

Packaging: 包裝

- 2,000 ft (610m) or 1,000 ft (305m)
2,000 呎(610 米)或 1,000 呎(305 米)
- Available on coils or reels
可依客戶要求做成卷裝或軸裝

Type of Twisted 組合方式	Pairs 對型	Triads 複合型	Quads 複合型	Complex 複合型
Non-Shield 非遮蔽型				
Shield 遮蔽型	Individually Shield (個別遮蔽)	Individually Shield (個別遮蔽)	Individually Shield (個別遮蔽)	Individually & Overall Shield (個別遮蔽+整體遮蔽)

Note : Individually Shield or/and Overall Shield may be with Al-Mylar foil, Copper wire braided or Copper wire spiral wrapping.
備註：個別遮蔽或/及整體遮蔽方式，可用鋁箔麥拉帶，銅線編織或銅線繞捲等方式



Electrical Properties: 電氣特性

Nom. Characteristic Impedance 特性阻抗(Ω)						90Ω±15%				
Propagation 傳輸遞延 1-16 MHz, ns/m						6.35				
Attenuation	MHz	0.064	0.256	0.512	0.772	1	4	8	10	16
dB/305M 衰減量	dB	4.8	6.7	8.2	9.4	12.0	24.0	35.0	38.0	48.0

Compose of cable cores & Construction of Cable 電纜芯線組成及電纜結構	Conductor Composition 導體組成	Insulation Thickness (Min. AVG) 絕緣厚度 (最小平均值)	Jacket Thickness (Min. AVG) 被覆厚度 (最小平均值)	Nominal O.D. (Approx.) 完成外徑 (約)	Maximum Resistance of Conductor 最大導體電阻	
		No./mm	mm	mm	mm	Ω/M.20°C
<ul style="list-style-type: none"> ● Cable core : UL 1589 or UL 1640 ● Shield: <ul style="list-style-type: none"> ➢ Individually: Al-Mylar foil with drain wire. ➢ Overall: Al-Mylar foil with adrain wire & tinned copper wires braiding. 	1P	22(7/0.254)	0.23	0.38	4.1	0.055
	2P	"	"	0.51	7.4	"
	3P	"	"	0.76	8.2	"
	4P	"	"	"	8.8	"
	5P	"	"	"	9.6	"
<ul style="list-style-type: none"> ● 組成芯線為 UL1589 或 UL1640 ● 遮蔽層: <ul style="list-style-type: none"> ➢ 個別遮蔽: 鋁箔麥拉帶加地線 ➢ 整體遮蔽: 鋁箔麥拉帶加地線加鍍錫銅網 	7P	22(7/0.254)	0.23	0.76	10.4	0.057
	10P	"	"	1.14	13.8	"
	15P	"	"	"	14.1	"
	20P	"	"	"	17.2	"
	25P	"	"	"	19.0	"
<ul style="list-style-type: none"> ● Cable core : UL 1589 or UL 1640 ● Shield: <ul style="list-style-type: none"> ➢ Overall: Al-Mylar foil with a drain wire & tinned copper wires braiding. ● 組成芯線為 UL1589 或 UL1640 ● 遮蔽層: <ul style="list-style-type: none"> ➢ 整體遮蔽 鋁箔麥拉帶加地線外覆一層鍍錫銅線編織 	1P	22(7/0.254)	0.23	0.38	4.1	0.055
	2P	"	"	0.51	6.4	"
	3P	"	"	"	6.8	"
	4P	"	"	"	7.5	"
	5P	"	"	0.76	8.5	"
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	10P	"	"	"	10.7	"
	15P	"	"	1.14	13.3	"
	20P	"	"	"	15.0	"
	25P	"	"	"	16.2	"
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	10T	"	"	1.14	14.6	"
	15T	"	"	"	16.0	"
	20T	"	"	"	18.2	"
	25T	"	"	"	20.2	"



Electrical Properties: 電氣特性

Nom. Characteristic Impedance 特性阻抗 Ω					90Ω±15%					
Propagation 傳輸延遲 1-16 MHz, ns/m					6.35					
Attenuation dB/305M 衰減量	MHz	0.064	0.256	0.512	0.772	1	4	8	10	16
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	2P	"	"	0.51	6.5	0.094
	3P	"	"	"	7.2	"
	4P	"	"	0.76	8.1	"
	5P	"	"	"	8.8	"
	7P	24(7/0.203)	0.23	0.76	9.5	0.094
	10P	"	"	"	12.0	"
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	2P	"	"	0.51	5.7	0.094
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	10T	"	"	1.14	13.3	"
	15T	"	"	"	14.5	"
	20T	"	"	"	16.5	"
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Propagation 傳輸遞延 1-16 MHz, ns/m						6.35				
Attenuation dB/305M 衰減量	MHz	0.064	0.256	0.512	0.772	1	4	8	10	16
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	2P	"	"	0.51	6.0	0.151
	3P	"	"	"	6.5	"
	4P	"	"	"	7.2	"
	5P	"	"	0.76	8.1	"
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	25T	"	"	"	17.0	"



Electrical Properties: 電氣特性

Nom. Characteristic Impedance 特性阻抗 Ω						90Ω±15%				
Propagation 傳輸遞延 1-16 MHz, ns/m						6.35				
Attenuation dB/305M 衰減量	MHz	0.064	0.256	0.512	0.772	1	4	8	10	16
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	2P	"	"	"	5.1	"
	3P	"	"	0.51	6.0	"
	4P	"	"	"	6.6	"
	5P	"	"	"	7.2	"
	7P	28(7/0.127)	0.23	0.76	8.0	0.232
	10P	"	"	"	9.8	"
	15P	"	"	"	11.1	"
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	2P	"	"	"	4.6	"
	3P	"	"	"	5.0	"
	4P	"	"	0.51	5.6	"
	5P	"	"	"	6.0	"
	7P	28(7/0.127)	0.23	0.51	6.5	0.232
	10P	"	"	0.76	8.2	"
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Propagation 傳輸遞延 1-16 MHz, ns/m						6.35				
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	2P	"	"	0.38	5.0	0.376
	3P	"	"	0.38	5.5	"
	4P	"	"	0.51	6.2	"
	5P	"	"	0.51	6.8	"
	7P	30(7/0.102)	0.23	0.51	7.5	0.376
	10P	"	"	0.76	9.5	"
	15P	"	"	0.76	10.3	"
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	2P	"	"	0.38	4.4	0.376
	3P	"	"	0.38	4.6	"
	4P	"	"	0.38	5.0	"
	5P	"	"	0.51	5.8	"
	7P	30(7/0.102)	0.23	0.51	6.3	0.376
	10P	"	"	0.51	7.5	"
	15P	"	"	0.76	9.0	"
	20P	"	"	0.76	10.0	"
	25P	"	"	0.76	10.7	"
<ul style="list-style-type: none"> ● Cable core : UL 1589 or UL 1640 ● Shield: <ul style="list-style-type: none"> ➢ Individually:Al-Mylar foil with drain wire. ➢ Overall:Al-Mylar foil with a drain wire & tinned copper wires braiding. ● 組成芯線為 UL1589 或 UL1640 ● 遮蔽層： <ul style="list-style-type: none"> ➢ 個別遮蔽：鋁箔麥拉帶加地線 ➢ 整體遮蔽：鋁箔麥拉帶加地線 & 鍍錫銅線編織 	1T	30(7/0.102)	0.23	0.38	3.3	0.368
	2T	"	"	0.38	5.4	0.376
	3T	"	"	0.38	5.7	"
	4T	"	"	0.51	6.5	"
	5T	"	"	0.51	6.8	"
	7T	30(7/0.102)	0.23	0.76	8.1	0.376
	10T	"	"	0.76	10.0	"
	15T	"	"	0.76	10.8	"
	20T	"	"	0.76	12.5	"
	25T	"	"	1.14	14.5	"