



Datenblatt - Fiche technique - Data sheet

21.15.0321



ROLINE S/FTP Kabel Kat. 5e, Litze, 300m

ROLINE Câble S/FTP Cat. 5e, fils tressés, 300m

ROLINE S/FTP Cable Cat.5e, Stranded Wire, 300 m

Rotronic Co., Ltd

產品規格書 Product Specification

品名 Product	CAT5E SFTP STR 26AWG×4P	單號 NO.	
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■ 符合規範 In Compliance With:

All Proposed Category 5e requirements as per ANSI/TIA/EIA, ISO/IEC, and CENELEC EN Standards.

ANSI/TIA/EIA 568-B.2

2nd Edition ISO/IEC 11801

CENELEC EN 50173-1

IEC 61156-5, CENELEC EN 50288-2-1 for Horizontal Cable

IEC 61156-6, CENELEC EN 50288-2-2 for Patch Cable

Flame Retardancy is verified according to IEC 60332-1

We implemented RoHS compliance for the requirement of European Union issued Directive 2002/95/EC

■ 認證 Approval:

3P Certified ANSI/TIA/EIA-568-B.2 Category 5e Testing Performance requirements.

■ 應用 Applications:

Voice, T1, ISDN

10BASE-T, 100BASE-T Fast Ethernet (IEEE 802.3),

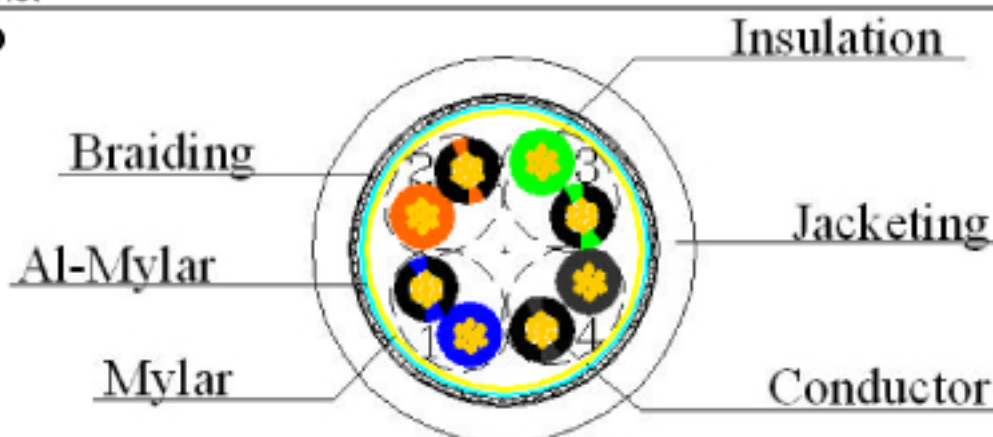
100 VG 155/622 Mbps ATM

550 MHz Broadband Video

1000BASE-T Gigabit Ethernet

■ 結構圖 Configuratio

orange 2	green 3
white/orange	white/green
blue 1	brown 4
white/blue	white/brown



■ 結構及物理特性 Configuration & Physical Characters:

1. 銅導體 Conductor	材料 Material	裸銅 Bare Copper
	規格 Size	26 AWG
	構造 Construction	7/0.16 ± 0.005 mm
2. 絕緣體 Insulation	材料 Material	高密度聚乙烯 HDPE
	厚度 Thickness	Average: 0.22 mm Min. at any point: 0.16 mm
	直徑 Diameter	0.92 ± 0.06 mm
	顏色 Colors	Blue/White-Blue , Orange/White-Orange Green/White-Green , Brown/White-Brown
	伸長率 Elongation	Min. 300 %
	抗張強度 Tensile strength	Min. 1.682 Kg/mm ²

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3. 遮蔽 Shield	鋁箔麥拉 Al-Mylar Type 麥拉帶 Mylar Type	鋁箔朝外 Aluminum foil on outside	
4. 編織 Braid	材料 Material 遮蔽率 Coverage	鍍錫銅 Tinned Copper Min. 40% (Nom. 50%)	
5. 外被 Sheath	材料 Material	PVC	LSOH
	厚度 Thickness	Average: 0.50 mm Min. at any point: 0.40 mm	Average: 0.5 mm Min. at any point: 0.4 mm
	直徑 Diameter	5.6 ± 0.3 mm	5.6 ± 0.2 mm
	顏色 Color	依要求 Assorted upon request	依要求 Assorted upon request
	伸長率 Elongation	Min. 100%	Min. 125%
	抗張強度 Tensile strength	Min. 1.407 Kg/mm ²	Min. 0.917 Kg/mm ²
	168小時100°C老化後 Aging at 100°C for 168Hrs	伸長殘率:50%以上 Min. elongation retention:50% 抗張殘率:75%以上 Min. tensile strength retention:75%	伸長殘率:75%以上 Min. elongation retention:75% 抗張殘率:70%以上 Min. tensile strength retention:70%
	印字內容 Marking	PVC: roline SFTP CAT.5E PATCH ISO/IEC 11801 & EN 50288 FOR GIGABIT ETHERNET - 26AWGX4P TYPE CM (UL) C(UL) LSOH: roline SFTP CAT.5E 26AWGX4P PATCH TYPE LSOH IEC 332.1 - ISO/IEC 11801 & EN 50288 FOR GIGABIT or as customer request.	
耐燃試驗 Flame Test	燃燒5次，每次燃燒不得超過60秒且紙旗不得燃燒 Burning five times, every time is less than 60 seconds and paper flag can't be burned.		

■ 電氣特性 Electric Characters :

1. 火花測試 Spark Test	2000 ± 250 V ac			
2. 耐壓強度 Dielectric Strength	2500 V dc / 3 seconds			
3. 絕緣阻抗 Insulation Resistance Test	Min. 150 MO/Km			
4. 導體電阻 Conductor Resistance	Max. 14.07 O/100m at 20°C			
5. 電阻不平衡 Resistance Unbalance	Max. 5%			
6. 電容不平衡 Capacitance Unbalance	Max. 330 pF/100m			
7. 相對電容 Mutual Capacitance	Max. 5600 pF/100m			
8. 特性阻抗 Impedance	722kHz	102O ± 15%		
	1~125MHz	100O ± 15%		
9. 衰減及串音 Attenuation & Near end cross-talk		Attenuation (dB/100 meters at 20°C),Max.	Next (dB),Min.	Power sum (dB),Min.
	772kHz	--	67*	64*
	1MHz	--	65*	62*
	4MHz	6.4*	56*	53*
	8MHz	8.9*	51*	48*
	10MHz	9.9*	50*	47*
16MHz	12.3*	47*	44*	

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	20MHz	13.8*	45*	42*
	25MHz	16.0*	44*	41*
	31.25MHz	17.1*	42*	39*
	62.5MHz	25.6*	38*	35*
	100MHz	33.0*	35*	32*
	125MHz	37.4*	34*	31*

標上星號的值僅供參考。在室溫時任何一對組合的串音結合損失是比下列公式計算出的值大。
 The asterisked(*) value are for information only. The minimum Next coupling loss for any pair combination at room temperature is to be greater than the value determined using the formula :

$$NEXT(f \text{ MHz}) \geq NEXT(0.772) - 15 \text{ LOG}_{10}(f \text{ MHz}/0.772)$$

*Although Rotronic has taken precautions to ensure the accuracy of the product specifications at the time of publication, however, we cannot be responsible for the errors, omissions, or changes due to obsolescence. All data contained herein is subject to change without notice.