

rotronic

Datenblatt - Fiche technique - Data sheet

21.15.0121



ROLINE FTP Kabel Kat. 5e, Litzendraht, 300m

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

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

Category 5e FTP Patch Cable, 26AWG×4P, PVC

Part NO. 21.15.0121

Product Specification

STANDARD COMPLIANCES:			
All Proposed Category 5e requirements as per ANSI/TIA/EIA, ISO/IEC, and CENELEC EN Standards:			
ANSI/TIA/EIA-568-B.2 CAT.5e			
ISO/IEC 2 nd Edition 11801 Class D			
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			
CONSTRUCTION & CHARACTERISTICS:			
Conductor	Material / Size	Bare Copper / 26 AWG	
Insulation	Material	HDPE	
	Thickness	Normal Avg.: 0.22 mm	
	Diameter	Normal : 0.92 mm	
	Colors	Blue/White-Blue	Orange/White-Orange
		Green/White-Green	Brown/White-Brown
	Elongation	Min. 300%	
	Tensile Strength	Min. 1.683 Kg/mm ²	
Shield	Al-Mylar Type	Aluminum foil on inside surface	
Drain Wire	Material	Tinned Copper /Comply with international standard	
Sheath	Material	PVC	
	Thickness	Average: 0.50 mm	
	Diameter	5.6 ± 0.3 mm	
	Color	Assorted upon request	
	Elongation	Min. 100%	
	Tensile Strength	Min. 1.407 Kg/mm ²	
	Aging at 100°C for 168Hrs	Min. elongation retention: 50% Min. tensile strength retention: 75%	
Flame Test		Burning five times, every time is less than 60 seconds and paper flag can't be burned.	
Marking		CAT.5E FTP PATCH CABLE 3P VERIFIED to ISO/IEC 11801 ED.2 & TIA/EIA-568-B.2 & EN 50288-2-2 & IEC 60332-1 - 26AWGx4P TYPE CM (UL) c(UL) E164469 or as customer request.	

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APPROVALS:

- UL/cUL Listed
- 3P Certified ANSI/TIA/EIA-568-B.2 Category 5e testing performance requirements.

APPLICATIONS:

- 1000BASE-T Gigabit Ethernet
- 10BASE-T, 100BASE-T Fast Ethernet (IEEE 802.3)
- 550MHz Broadband Video
- 100 VG – AnyLAN (IEEE802.12), 155/622 Mbps ATM
- Voice, T1, ISDN

ELECTRICAL PERFORMANCES:

Spark Test		2000 ± 250 V ac		
Dielectric Strength		2500 V dc / 3 seconds		
Insulation Resistance Test		Min. 150 MΩ/Km		
Conductor Resistance		Max. 14.07 Ω/100m at 20°C		
Resistance Unbalance		Max. 5%		
Capacitance Unbalance		Max. 330 pF/100m		
Mutual Capacitance		Max. 5600 pF/100m		
Impedance	722kHz	102Ω ± 15%		
	1~125MHz	100Ω ± 15%		
Attenuation & Near End Cross Talk	Frequency (MHz)	Attenuation (dB/100M at 20°C), Max	Next (dB), Min	Power Sum (dB), Min
	722kHz	--	67.0*	64.0*
	1MHz	--	65.0*	62.0*
	4 MHz	6.4*	56.0*	53.0*
	8 MHz	8.9*	51.0*	48.0*
	10 MHz	9.9*	50.0*	47.0*
	16 MHz	12.3*	47.0*	44.0*
	20 MHz	13.8*	45.0*	42.0*
	25 MHz	16.0*	44.0*	41.0*
	31.25 MHz	17.1*	42.0*	39.0*
	62.5 MHz	25.6*	38.0*	35.0*
	100 MHz	33.0*	35.0*	32.0*
125 MHz	37.4*	34.0*	31.0*	

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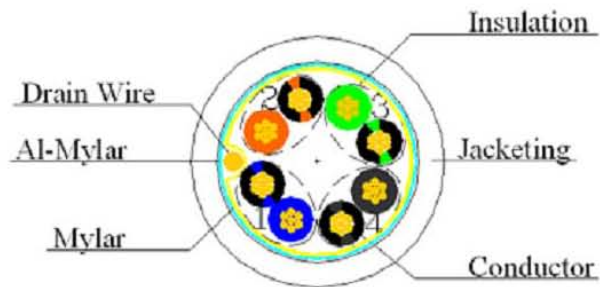
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The asterisked (*) value are for information only. The minimum Next coupling loss for any pair combination at room temperature is to be greater than the value determined using the formula :

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

CONFIGURATION:

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



ORDERING INFORMATION:

Part NO. 21.15.0121

Description. Category 5e FTP Patch Cable, 26AWG×4P, PVC(300m)

Others: Available on Requests.

*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.