



Datenblatt - Fiche technique - Data sheet

21.15.0009



ROLINE FTP Kabel Kat. 5e, Massivdraht, 100m

ROLINE Câble FTP Cat. 5e, fils rigides, 100m

ROLINE FTP Cable Cat.5e, Solid Wire, 100 m

Category 5e FTP Horizontal Cable,24AWG×4P,PVC

Part NO.21.15.0009, 21.15.0010

Product Specification

STANDARD COMPLIANCES:

All Category 5e Requirements as Per ANSI/TIA/EIA, ISO/IEC, and CENELEC EN Standards:

ANSI/TIA/EIA-568-B.2 Cat.5e

ISO/IEC 2nd Edition 11801 CLASS D

CENELEC EN 50173-1,CENELEC EN 50288-2-1,IEC 61156-5 for horizontal 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 / 24 AWG	
Insulation	Material	FOAM-SKIN PE	
	Thickness	Normal Avg.: 0.269 mm	
	Diameter	Normal : 1.055 mm	
	Colors	Blue/White-Blue	Orange/White-Orange
		Green/White-Green	Brown/White-Brown
	Elongation	Min. 150 %	
	Tensile Strength	Min. 0.51 Kg/mm ²	
Shield	Al-Mylar Type	Al-Mylar type insulation on outside surface	
Drain wire	Material	Tinned Copper	
	Size	Comply with international standard	
Sheath	Material	PVC	
	Thickness	Average: 0.50 mm	
	Diameter	6.1 ± 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%	
Marking	YFC CAT.5E FTP INSTALLATION CABLE 3P VERIFIED to ISO/IEC 11801 ED.2 & TIA/EIA-568-B.2 & EN 50288-2-1 & IEC 60332-1 24AWGx4P TYPE CM (UL) c(UL) E164469-F3 [XXXXXXM]		
	or as customer request.		

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Flame Test		Burning five times, every time is less than 60 second and paper flag can't be burned.		
APPROVALS:				
<ul style="list-style-type: none"> ➤ UL/cUL Listed ➤ 3P Certified ANSI/TIA/EIA-568-B.2 Category 5E Testing Performance Requirements. 				
APPLICATIONS:				
<ul style="list-style-type: none"> ➤ 1000BASE-T Gigabit Ethernet ➤ 10BASE-T, 100BASE-Tx Fast Ethernet (IEEE 802.3) ➤ 100 VG - AnyLAN(IEEE802.12), 155 Mbps ATM ➤ 550 MHz Broadband Video ➤ Voice, T1, ISDN 				
ELECTRICAL PERFORMANCE:				
Spark Test		850 V ac		
Dielectric Strength		2500 V dc / 3 seconds		
Insulation Resistance Test		Min. 150 MΩ/Km		
Conductor Resistance		Max.9.38 Ω/100m at 20°C		
Resistance Unbalance		Max. 5%		
Capacitance Unbalance		Max. 330 pF/100m		
Mutual Capacitance		Max. 5600 pF/100m		
Impedance	722 kHz	102 Ω± 15%		
	1~125 MHz	100 Ω± 15%		
Attenuation & Near End Cross Talk	Frequency (MHz)	Insertion Loss (dB/100M).Max	Next (dB).Min	PS NEXT (dB).Min
	722 kHz	--	67.0*	64.0*
	1 MHz	--	65.0*	62.0*
	4 MHz	4.1*	56.0*	53.0*
	8 MHz	5.8*	51.0*	48.0*
	10 MHz	6.5*	50.0*	47.0*
	16 MHz	8.2*	47.0*	44.0*
	20 MHz	9.3*	45.0*	42.0*
	25 MHz	10.4*	44.0*	41.0*
31.25 MHz	11.7*	42.0*	39.0*	

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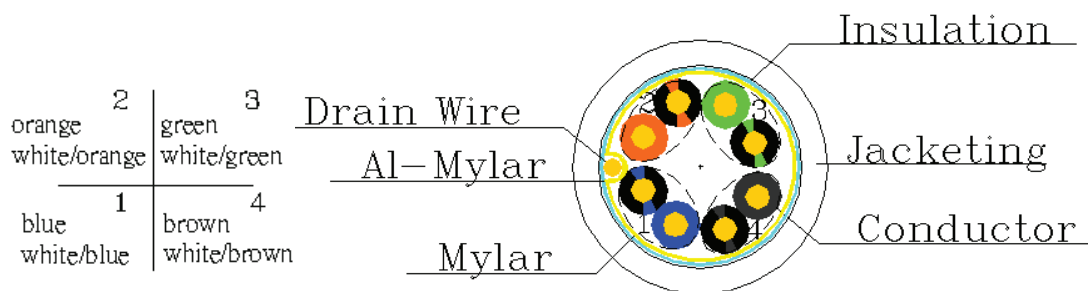
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	62.5 MHz	17.0*	38.0*	35.0*
	100 MHz	22.0*	35.0*	32.0*
	125 MHz	25.0*	34.0*	31.0*

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:

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

DRAWING:



ORDERING INFORMATION:

Part NO. 21.15.0009

Description. Category 5e FTP Horizontal Cable,24AWG×4P(100m)

Part NO. 21.15.0010

Description. Category 5e FTP Horizontal Cable,24AWG×4P(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.