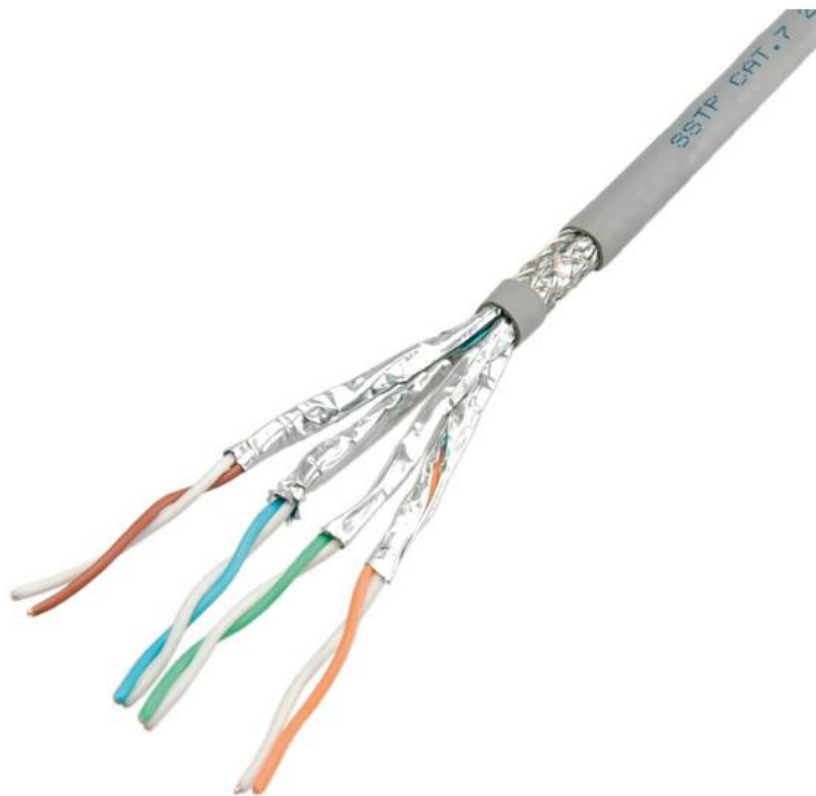




Datenblatt - Fiche technique - Data sheet

21.15.0004



ROLINE S/FTP-(PiMF-) Kabel Kat.7 Massivdraht, AWG23, halogenfrei, 300m

ROLINE Câble S/FTP (PiMF) Cat. 7 rigide anti-halogène, 300m

ROLINE S/FTP PiMF Cable Cat.7, Solid Wire, halogen-free, 300 m

Category 7 PIMF Horizontal Cable,23AWG×4P,LSOH

Part NO. 21.15.0004

Product Specification

STANDARD COMPLIANCES:

All Proposed Category 7 requirements as per ANSI/TIA/EIA, ISO/IEC, and CENELEC EN Standards.

ANSI/TIA/EIA-568-B.2-1

ISO/IEC 2nd Edition 11801 CLASS F

CENELEC EN 50173-1

IEC 61156-5, CENELEC 2nd Edition EN 50288-4-1 for horizontal cable

Flame Retardancy is verified according to IEC 60332-1-2.

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

CONSTRUCTION & CHARACTERISTICS:

Conductor	Material / Size	Bare Copper / 23 AWG	
Insulation	Material	Foam-Skin PE	
	Thickness	Normal Avg.: 0.419 mm	
	Diameter	Normal : 1.41 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		
Inner-Shield	Aluminum-Mylar	An aluminum foil screen around each pair	
Braid	Material	Tinned Copper / In accordance with the norms of production	
Sheath	Material	LSOH	
	Thickness	Average: 0.5 mm	
	Diameter	7.4 ± 0.3 mm	
	Color	Assorted upon request	
	Elongation	Min. 125%	
	Tensile strength	Min. 0.917 Kg/mm ²	
	Aging at 100°C for 168Hrs	Min. elongation retention:75% Min. tensile strength retention:70%	
Marking	YFC PIMF CAT.7 23AWGX4P TYPE LSOH IEC 60332-1 INSTALL CABLE ISO/IEC 11801 & EN 50288-4-1 & IEC 61156-5 3P VERIFIED XXXXXXM		
	or as customer request.		
Flame Test	Burning five times, every time is less than 60 second and paper flag can't be burned.		

Category 7 PIMF Horizontal Cable,23AWG×4P,LSOH

Part NO. 21.15.0004

APPROVALS:

- 3P Certified ISO/IEC 11801, 2nd Edition & EN 50173-1 Category 7 Testing Performance requirements.

APPLICATIONS:

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

ELECTRICAL PERFORMANCE:

Spark Test		1050 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. 2%		
Capacitance Unbalance		Max. 160 pF/100m		
Mutual Capacitance		Max. 5600 pF/100m		
Impedance	64kHz	125Ω ± 20%		
	1~250MHz	100Ω ± 15%		
	300~600MHZ	100Ω ± 25%		
Attenuation & Near End Cross Talk	Frequency (MHz)	Attenuation (dB/100 meters at 20°C), Max.	Next (dB), Min	Power Sum (dB), Min.
	1MHz	2.0*	80.0*	77.0*
	4MHz	3.7*	80.0*	77.0*
	10MHz	5.9*	80.0*	77.0*
	16MHz	7.4*	80.0*	77.0*
	20MHz	8.3*	80.0*	77.0*
	31.25MHz	10.4*	80.0*	77.0*
	62.5MHz	14.9*	75.5*	72.5*
	100MHz	19.0*	72.4*	69.4*
155MHz	24.0*	69.5*	66.5*	

Category 7 PIMF Horizontal Cable,23AWG×4P,LSOH

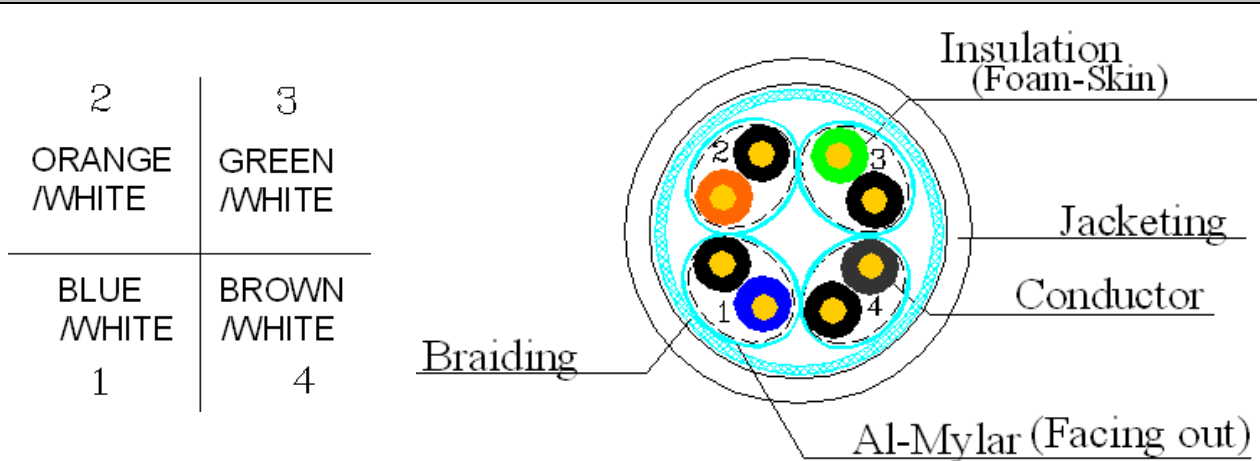
Part NO. 21.15.0004

	200MHz	27.5*	67.9*	64.9*
	300MHz	34.2*	65.2*	62.2*
	600MHz	50.10*	60.7*	57.7*

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:



ORDERING INFORMATION:

Part NO. 21.15.0004

Description Category 7 PIMF Horizontal Cable,23AWG×4P,LSOH(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.