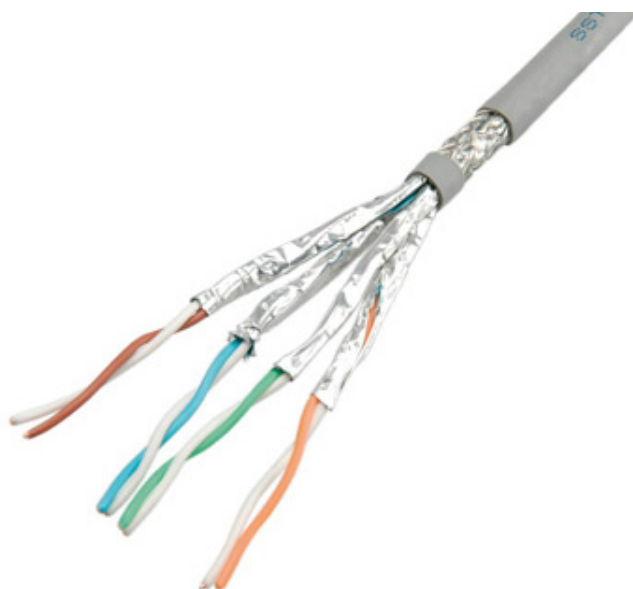


# rotronic

Datenblatt - Fiche technique - Data sheet

21.15.1889



**ROLINE S/FTP-(PiMF-) Kabel Kat.6 / Class E Massivdraht,  
AWG23, halogenfrei, 300m**

**ROLINE Câble S/FTP (PiMF) Cat.6 rigide anti-halogène,  
300m**

**ROLINE S/FTP Cable Cat.6, Solid Wire, AWG23,  
halogen-free, 300 m**

# Category 6 PIMF Horizontal Cable,23AWG×4P,LSOH

Part NO. 21.15.1889

## Product Specification

### STANDARD COMPLIANCES:

All Proposed Category 6 requirements as per ANSI/TIA/EIA, ISO/IEC, and CENELEC EN Standards.

ANSI/TIA/EIA-568-B.2-1 CAT.6

ISO/IEC 2nd Edition 11801 CLASS E

CENELEC EN 50173-1,CENELEC EN 50288-5-1,IEC 61156-5 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.: 0.414mm
	Diameter	Normal : 1.387mm
	Colors	Blue/White-Blue      Orange/White-Orange Green/White-Green    Brown/White-Brown
	Elongation	Min. 150 %
	Tensile Strength	Min. 0.51 Kg/mm <sup>2</sup>
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: 0.54 mm
	Diameter	7.2 ± 0.3 mm
	Color	Assorted upon request
	Elongation	Min. 125%
	Tensile strength	Min. 0.917 Kg/mm <sup>2</sup>
Marking	Aging at 100°C for 168Hrs	Min. elongation retention:75% Min. tensile strength retention:70%
		ROLINE CAT.6 23AWGX4PR SSTP LSOH IEC 60332.1 INSTALL CABLE - CONFORM TO ISO/IEC 11801 & EN 50288 & TIA/EIA-568-B.2-1 / 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 6 PIMF Horizontal Cable,23AWG×4P,LSOH

Part NO. 21.15.1889

## APPROVALS:

- 3P Certified ANSI/TIA/EIA-568-B.2-1 Category 6 Testing Performance requirements.

## APPLICATIONS:

- 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 CHARACTERS:

Spark Test		1050 V ac		
Dielectric Strength		2500 V dc / 3 seconds		
Insulation Resistance Test		Min. 150 MΩ/Km		
Conductor Resistance		Max.6.8 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%		
Attenuation & Near End Cross Talk	Frequency (MHz)	Attenuation (dB/100 meters at 20°C), Max.	Next (dB), Min	Power Sum (dB), Min.
	1MHz	2.1*	66.0*	64.0*
	4 MHz	3.8*	65.3*	63.3*
	10 MHz	6.0*	59.3*	57.3*
	16 MHz	7.6*	56.2*	54.2*
	20 MHz	8.5*	54.8*	52.8*
	31.25 MHz	10.7*	51.9*	49.9*
	62.5 MHz	15.5*	47.4*	45.4*
	100 MHz	19.9*	44.3*	42.3*
	150 MHz	24.86*	41.4*	39.4*
	200MHz	29.2*	39.8*	37.8*
250MHz	33.0*	38.3*	36.3*	

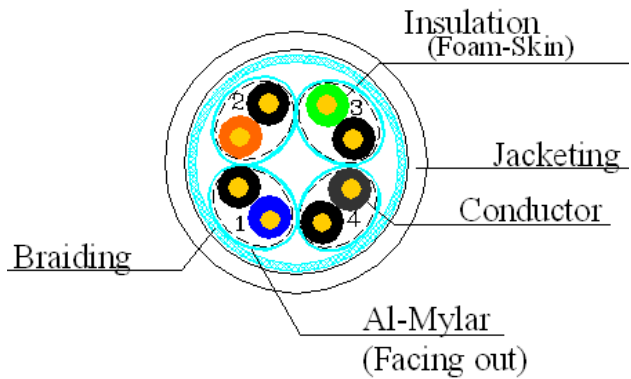
# Category 6 PIMF Horizontal Cable,23AWG×4P,LSOH

Part NO. 21.15.1889

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

## DRAWING:

2	3
ORANGE /WHITE	GREEN /WHITE
BLUE /WHITE	BROWN /WHITE
1	4



## ORDERING INFORMATION:

Part NO. 21.15.1889  
 Description Category 6 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.