

rotronic

Datenblatt - Fiche technique - Data sheet

21.15.0881



ROLINE S/FTP Kabel, Kat. 6a, Massivdraht, 300 m

ROLINE Câble S/FTP rigide Cat.6a / 10 Gigabit, 300 m

ROLINE S/FTP Cable Cat.6a, Solid Wire, 300 m

Category 6A PIMF Horizontal Cable,23AWG×4P,PVC

Part NO. 21.15.0881

Product Specification

STANDARD COMPLIANCES:			
All Proposed Category 6A Requirements as Per ANSI/TIA/EIA, ISO/IEC, and CENELEC EN Standards.			
ANSI/TIA/EIA 568-B.2-10			
ISO/IEC 2 nd Edition 11801 Amendment1.2			
CENELEC EN 50173-1			
CENELEC EN 50288-10-1 for Horizontal Cables			
ISO/IEC 61156-5 2 nd Edition for Horizontal Cables			
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: 1.42 mm	
	Colors	Blue/White	Orange/White
		Green/White	Brown/White
	Elongation	Min. 150 %	
	Tensile Strength	Min. 0.51 Kg/mm ²	
Inner-Shield	Aluminum-Mylar	Aluminum foil screen around each pair	
Braid	Material	Tinned Copper /In accordance with the norms of production	
Sheath	Material	PVC	
	Thickness	Average: 0.5 mm	
	Diameter	7.4 ± 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.6A SSTP 10 GIGABIT ETHERNET INSTALLATION CABLE ISO/IEC 11801 & EN 50288 & TIA/EIA-568-B.2-10 & IEC 332.1 23AWGX4P TYPE CM(UL) C(UL) E164469 xxxxxxM		
	or as customer request.		

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Flame Test		Burning five times, every time is less than 60 seconds and paper flag can't be burned.		
APPROVALS:				
<ul style="list-style-type: none"> ➤ UL/cUL Listed ➤ 3P Certified for Category 6A PIMF Installation Cable 				
APPLICATIONS:				
<ul style="list-style-type: none"> ➤ 10GBASE-T Ethernet ➤ 100BASE-TX Fast Ethernet ➤ 1000BASE-T Gigabit Ethernet ➤ 1000BASE-TX Gigabit Ethernet ➤ 10BASE-TX Ethernet ➤ ATM CB1G ➤ 155/622 Mbps ATM ➤ 100 Mbps TP-PMD ➤ 100VG-AnyLAN ➤ 4/16 Mbps Token Ring 				
ELECTRICAL PERFORMANCE:				
Spark Test		2000 ± 250 V ac		
Dielectric Strength		2500 V dc / 3 seconds		
Insulation Resistance Test		Min. 150 MΩ/Km		
Conductor Resistance		Max. 9.91 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%		
	1~500MHz	100Ω± 15%		
Attenuation & Near End Cross Talk	Frequency (MHz)	Attenuation (dB/100M)	Next (dB)	PS NEXT (dB)
	1MHz	2.1*	74.3*	72.3*
	10MHz	5.9*	59.3*	57.3*
	100MHz	19.1*	44.3*	42.3*
	200MHz	27.6*	39.8*	37.8*
	300MHz	34.3*	37.1*	35.1*

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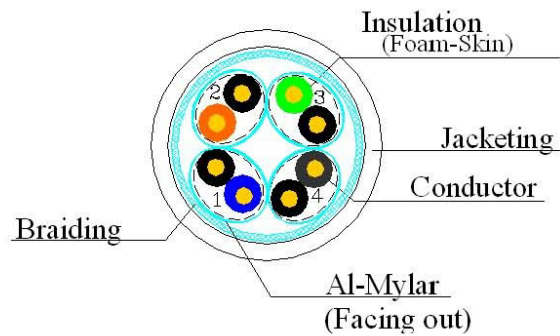
	400MHz	40.1*	35.3*	33.3*
	500MHz	45.3*	33.8*	31.8*

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:

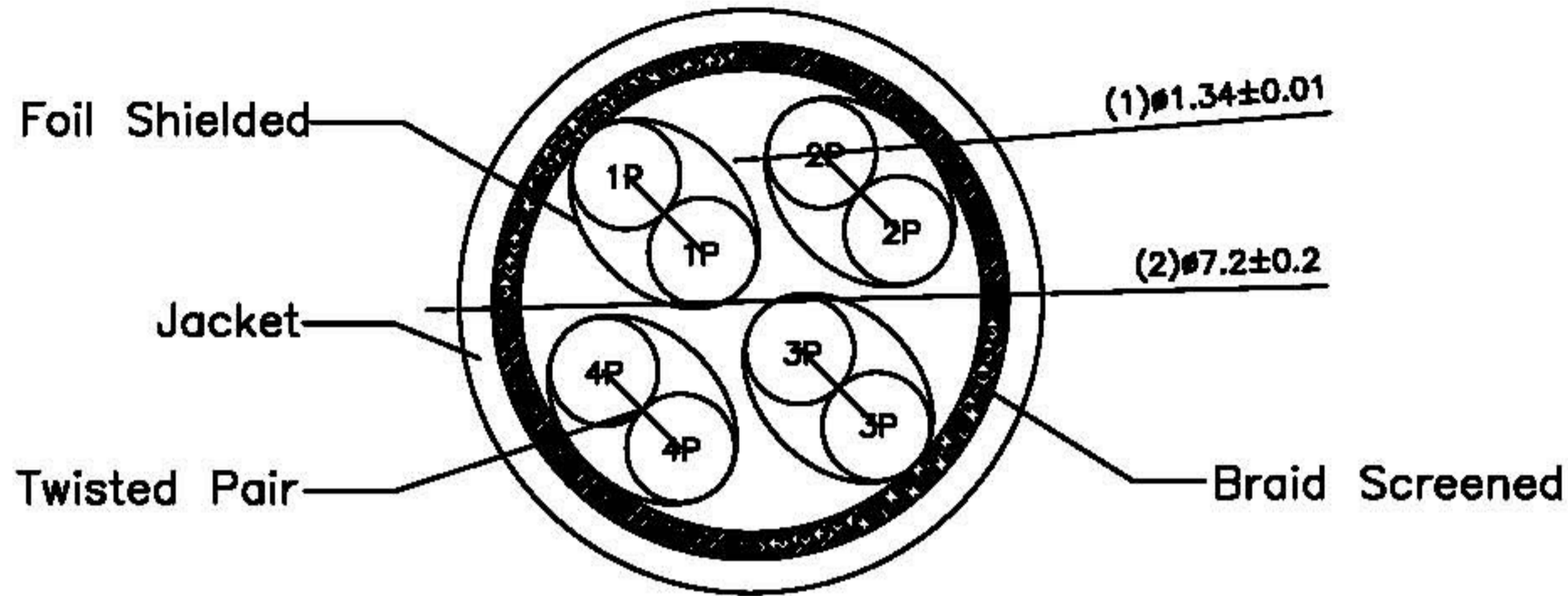
$$\text{NEXT} \geq 31 - 50 \log_{10}(f \text{ MHz}/330)$$

CONFIGURATION:

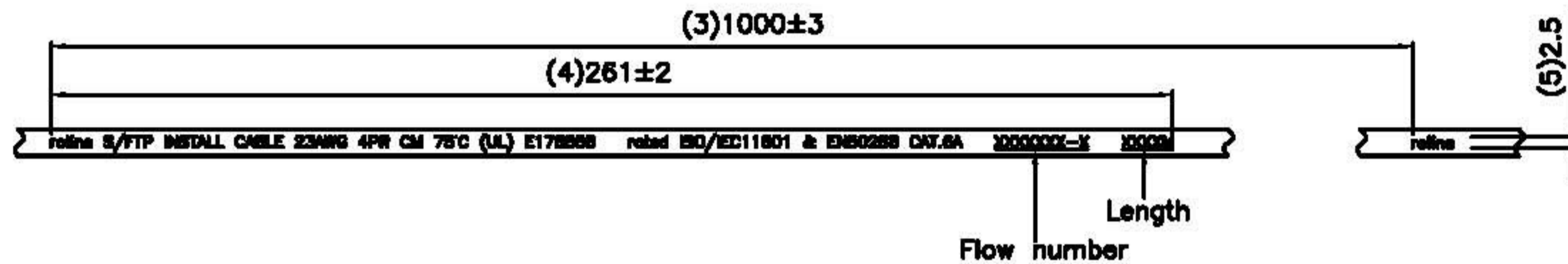
orange 2	green 3
white/orange	white/green
blue 1	brown 4
white/blue	white/brown



SCALE 8/1



SCALE 1/2



SCALE 1/1

roline S/FTP INSTALL CABLE 23AWG 4PR CM 75°C (UL) E178558 rated ISO/IEC11801 & EN50288 CAT.6A XXXXXXX-X XXXXM

Specification:

- 1.Wiring: T568B
- 2.Conductor: 23AWG
- 3.XXXXXXX-X: flow number
- 4.XXXXM: length
- 5.print color: blue
- 6.Material of Jacket: PVC

NO.	DESCRIPTION	P/N.	MATERIAL	Q'TY
*#:	Matching DIM.	DRAWING	25.MAY.2012	LEEN
*#:	Important DIM.	CHECK	25.MAY.2012	LSY
	Others General DIM.	APPROVAL	25.MAY.2012	YTY
GENERAL TOLERANCE OF DIMENSIONS		DATE	NAME	ITEM NO.: 21.15.0881
XJ00	±0.005	SCALE	B/1 (A4)	UNIT
XJX	±0.05		mm	DES.: ROL-MP120321-001
XJX	±0.1	DRAWING NO. ROL-S/FTP-SOLID-CBA-CABLE(EA1)		A1
		DRAWING CLASSIFICATION E SHEET 1 OF 1		

No.	MODIFIED AREA	ORIGINAL	MODIFY	DATE	MODIFIER