

PRODUCT DATASHEET: CATEGORY 6A SFTP 4P 23AWG LSZH

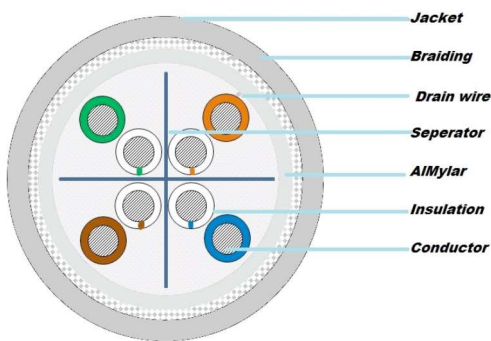
Description

- Rated temperature: 70°C
- Reference standard:
IEC 61156-5, ISO/IEC 11801, ANSI/TIA-568-C.2
- 23 AWG Solid bare copper conductors
- Flame Retardant comply to IEC 60332 P1
- Halogen Free Comply to IEC 60754 P1
- Colour-coded Foamed PE insulation

Application

- 100Base-T4
- 100Base-TX
- 100VG-AnyLAN
- 1000Base-T
- 1000Base-TX
- 155Mbps ATM
- 622Mbps ATM
- 10 Gb Ethernet

Product Figure



- 1 Outer jacket
- 2 Braid
- 3 AL-Foil
- 4 Insulation
- 5 Conductor
- 6 Ripcord
- 7 Separator

Physical Characteristics

Structure	Construction	S/FTP
	Number of pairs	4 Pairs
Conductor	AWG	23 AWG
	Conductor material	Solid bare copper
Insulation	Conductor dimension	0.555 +/- 0.015mm
	Insulation material	Polyethylene (HDPE)
	Insulation dimension	1.32 ±0.05 mm
	Number colour	1.White Blue & Blue (in foil 1) 2.White Orange & Orange (in foil 2) 3.White Green & Green (in foil 3) 4.White Brown & Brown (in foil 4)
Cabling	Twisting lay length	≤30mm
	Cabling lay length	≤200mm
Shield	Individual shield & material	AL-Foil Width: 14mm (Nom.) Thickness: 0.057 +/- 0.002 mm
	Primary overall shield & material	Tinned copper braid (0.110 +/-0.001mm)
Outer jacket	Shield coverage Nom.	40%
	Drain wire	ATC Drain Wire
	Outer jacket material	LSZH
	Overall nominal dimension	7.1 +/- 0.3mm
Mechanical characteristics	Outer jacket rip cord	Yes
	Outer jacket colour	Grey RAL 7035
	Operating temperature range	-20 °C ~ +70 °C
	Max. recommended pulling tension	110 N
Electrical characteristics	Min. bend radius (install)	8 x O.D.
	Outer jacket tensile strength	≥9.7 MPa
	Nom. mutual capacitance	≤5.6 nF/100m (@1kHz)
	Nominal velocity of propagation	69%
	Max. delay skew	45 ns/100m
	Max. conductor DC resistance	93.8 Ω/km (@ 20 °C)
	Max. conductor resistance unbalance	5% (@ 20 °C)
	Min. insulation resistance	5000 MΩ·m
Max. operating voltage	300 V	
Characteristic Impedance	100 + 15 Ω	

• For additional information please contact your sales representative
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Electrical Characteristics meet or exceed ANSI/TIA-568-C.2 90m PL

Frequency (MHz)	Max attenuation(dB/100M)	RL (dB)	NEXT (dB)	PSNEXT (dB)	ACRF	PSACRF
1	2.1	20.0	74.3	72.3	67.8	64.8
4	3.8	23.0	65.3	63.3	55.8	52.8
10	5.9	25.0	59.3	57.3	47.8	44.8
16	7.5	25.0	56.2	54.2	43.7	40.7
20	8.4	25.0	54.8	52.8	41.8	38.8
31.25	10.5	23.6	51.9	49.9	37.9	34.9
62.5	15	21.5	47.4	45.4	31.9	28.9
100	19.1	20.1	44.3	42.3	27.8	24.8
200	27.6	18.0	39.8	37.8	21.8	18.8
250	31.1	17.3	38.3	36.3	19.8	16.8
300	34.3	16.8	38.1	35.1	18.3	15.3
500	45.3	15.2	34.8	31.8	13.8	10.8

Cable Printing details:

CISNET CAT6A 4PR 23AWG S/FTP LSZH TIA-568-C.2 < cable PN> RoHS COMPLIANT <month/year> <batch number> XXX m

Ordering Guide

Part Number	Description
UC331412	CISNET™ CATEGORY 6A S/FTP 4P 23 AWG LSZH GREY CABLE 305m ON REEL

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