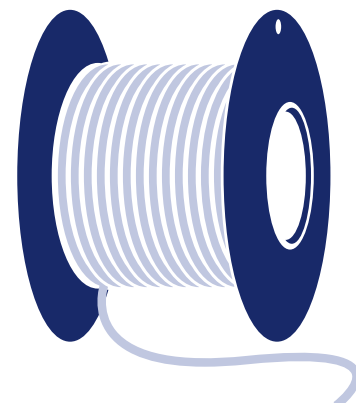


Product Specifications

Product : 4PR 23AWG F/UTP CAT6A LSZH CLASS Dca / LN-A0423AF6A-LIS-013

Description

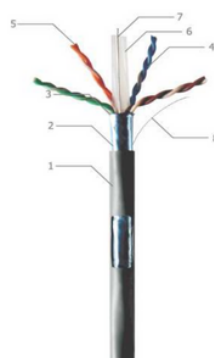
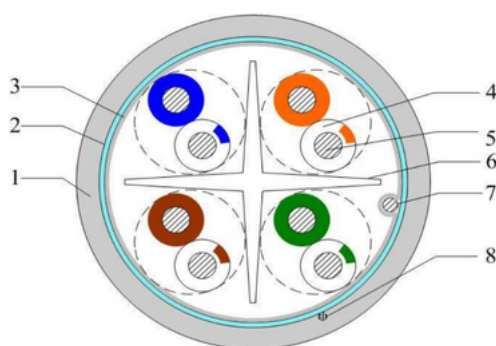
- Rated temperature: 75°C
- Reference standard: IEC 61156-5 & ISO/IEC 11801
- Flame test: IEC 60332-1, EUROCLASS Dca-s2,d2,a1
- Solid bare copper conductor
- Colour-coded PE insulation
- LSZH jacket
- Packaging: Per customer request



Applications

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

Product figure



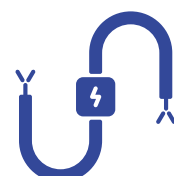
1. Outer jacket
2. AL-Foil
3. Polyester tape
4. Insulation
5. Conductor
6. Filler
7. Drain wire
8. Rip cord

Physical characteristics

Structure	Conductor	Cabling	Insulation
• Construction F/UTP	• AWG: 23 AWG • Conductor material: Solid bare copper. • Conductor dimension: 0.566 ±0.02 mm	• Twisting lay length $\leq 30\text{mm}$ • Cabling lay length $\leq 200\text{mm}$	• Material: Foam PE • Insulation dimension (Blue,Green): 1.14 ±0.05 mm • Insulation dimension (Orange,Brown): 1.08 ±0.05 mm • Number colour (stripe marking): 1.White/Blue (Stripe) & Blue 2.White/Orange (Stripe) & Orange 3.White/Green (Stripe) & Green 4.White/Brown (Stripe) & Brown
Filler	Binder	Shield	Outer jacket
• Filler material: Yes	• Material: Polyester tape	• Primary overall shield & material: AL-Foil • Secondary overall shield & material: N/A • Shield coverage: 100% • Drain wire Nom: 0.4 mm solid tinned copper	• Material: LSZH • Thickness (nom.): 0.5mm • Overall nominal dimension: 7.3 ±0.3 mm • Rip cord: Yes • Color: Per customer request

Mechanical characteristics

- Operating temperature range: -20 °C ~ +75 °C
- Bulk cable weight: 52 kg/km
- Max. recommended pulling tension: 110 N
- Min. bend radius (install): 8 x O.D.
- Outer jacket tensile strength: $\geq 9\text{MPa}$
- Outer jacket elongation: $\geq 100\%$
- Outer jacket aging condition: 100 °C x 168 hrs
- After aging, Tensile strength: $\geq 70\%$ of Unaging
- After aging, Elongation: $\geq 50\%$ of Unaging
- Cold bend: No crack (@ -20°C x 4hrs)



Electrical characteristics

- Nom. mutual capacitance: $\leq 5.6 \text{ nF}/100\text{m}$ (@1kHz)
- Pair to ground capacitance unbalance: $\leq 1600 \text{ pF}/\text{Km}$
- Nominal velocity of propagation: 65%
- Max. delay skew: 45 ns/100m
- Max. conductor DC resistance: $93.8 \text{ }\Omega/\text{km}$ (@ 20 °C)
- Max. conductor resistance unbalance: 2% (@ 20 °C)
- Min. insulation resistance: 5000 M Ω ·m
- Max. operating voltage - UL: 300 V

Electrical characteristics

Frequency	Characteristic Impedance Upper limit	Characteristic Impedance Lower limit	ATT	RL	NEXT	PS NEXT	ELFEXT	PS ELFEXT	PS ANEXT	PS AACRF	PD
(MHz)	Zu (Ω)	Zl (Ω)	(dB/100m)	(dB Min)	(dB Min)	(dB Min)	(dB Min)	(dB Min)	(dB Min)	(dB Min)	(ns/100m Max)
4	115.2	86.8	3.8	23.0	66.3	63.3	56.0	53.0	67.0	66.2	552.0
8	112.6	88.8	5.3	24.5	61.8	58.8	49.9	46.9	67.0	60.1	546.7
10	111.9	89.4	5.9	25.0	60.3	57.3	48.0	45.0	67.0	58.2	545.4
16	111.9	89.4	7.5	25.0	57.2	54.2	43.9	40.9	67.0	54.1	543.0
20	111.9	89.4	8.4	25.0	55.8	52.8	42.0	39.0	67.0	52.2	542.0
25	112.9	88.5	9.4	24.3	54.3	51.3	40.0	37.0	67.0	50.2	541.2
31.25	114.1	87.7	10.5	23.6	52.9	49.9	38.1	35.1	67.0	48.3	540.4
62.5	118.3	84.5	15.0	21.5	48.4	45.4	32.1	29.1	65.6	42.3	538.6
100	121.9	82.0	19.1	20.1	45.3	42.3	28.0	25.0	62.5	38.2	537.6
200	128.8	77.6	27.6	18.0	40.8	37.8	22.0	19.0	58.0	32.2	536.5
250	131.5	76.0	31.1	17.3	39.3	36.3	20.0	17.0	56.5	30.2	536.3
300	131.6	76.0	34.3	17.3	38.1	35.1	18.5	15.5	55.3	28.7	536.1
400	131.6	76.0	40.1	17.3	36.3	33.3	16.0	13.0	53.5	26.2	535.8
500	131.6	76.0	45.3	17.3	34.8	31.8	14.0	11.0	52.0	24.2	535.6

Table I				
★ means	Jacket color		Packing length	
05000	0	Grey	0500	500M
03051	1	Red	0305	305M
03052	2	Green	0305	305M
05002	2	Green	0500	500M
03053	3	Blue	0305	305M
05005	5	Black	0500	500M
03056	6	Orange	0305	305M
03050	0	Grey	0305	305M
05004	4	Yellow	0500	500M
05003	3	Blue	0500	500M

Revision record

Date	version	change Description
Jan 20, 2026	V.0	First release

