

Product Specifications

Product : 4PR 23AWG S/FTP CAT7A LSZH CLASS Dca / LN-A0423AP7A-LIP-001

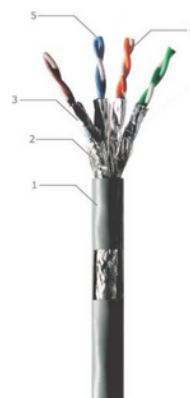
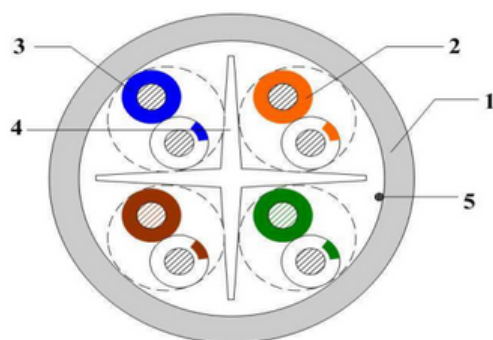
Description

- Rated temperature: 75°C
- Reference standard: IEC 61156-5 & ISO/IEC 11801
- Flame test: IEC 60332-1, EUROCLASS Dca-sla,d1,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. Braid
3. AL-Foil
4. Insulation
5. Conductor

Physical characteristics

Structure

- Construction S/FTP
- Number of pairs 4 Pairs

Conductor

- AWG: 23 AWG
- Conductor material: Solid bare copper.
- Conductor dimension: 0.580 ±0.02 mm.

Cabling

- Twisting lay length ≤ 30 mm
- Cabling lay length ≤ 200 mm

Insulation

- Material: Foam PE
- Dimension: 1.38±0.05 mm
- Colour code (stripe marking):
 1. White/Blue (Stripe) & Blue
 2. White/Orange (Stripe) & Orange
 3. White/Green (Stripe) & Green
 4. White/Brown (Stripe) & Brown

Filler

- Filler material: N/A

Binder

- Material: N/A

Shield

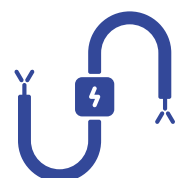
- Individual shield & material: AL-Foil
- Primary overall shield & material: Solid tinned copper braid
- Secondary overall shield & material: N/A
- Shield coverage: $\geq 40\%$
- Drain wire: N/A

Outer jacket

- Material: LSZH
- Thickness (nom.): 0.55mm
- Outer diameter: 6.4±0.3mm
- Rip cord: Yes
- Color: Per customer request

Mechanical characteristics

- Operating temperature range: -20 °C ~ +75 °C
- characteristics Bulk cable weight: 61 kg/km
- Max. recommended pulling tension: 110 N
- Min. bend radius (install): 8 x O.D.
- Outer jacket tensile strength: ≥ 9 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: $\leq 1600 \text{ pF}/1\text{Km}$
- Nominal velocity of propagation: 74%
- Max. delay skew: 25 ns/100m
- Max. conductor DC resistance: $95 \text{ }\Omega/\text{km}$ (@ 20 °C)
- Max. conductor resistance unbalance: 2% (@ 20 °C)
- Min. insulation resistance: 5000 M $\Omega\cdot\text{m}$
- Max. operating voltage - UL: 300 V

Transmission characteristics (Length: 100m)

Frequency	Characteristic Impedance Upper limit	Characteristic Impedance Lower limit	ATT	RL	NEXT	PS NEXT	ELFEXT	PS ELFEXT	PD
(MHz)	Zu (Ω)	Zl (Ω)	(dB/100m)	(dB Min)	(dB Min)	(dB Min)	(dB Min)	(dB Min)	(ns/100m Max)
4	115.2	86.8	3.75	23.0	78.0	75.0	78.0	75.0	552.0
8	112.6	88.8	5.22	24.5	78.0	75.0	77.2	74.2	546.7
10	111.9	89.4	5.82	25.0	78.0	75.0	75.3	72.3	545.4
16	111.9	89.4	7.34	25.0	78.0	75.0	71.2	68.2	543.0
20	111.9	89.4	8.21	25.0	78.0	75.0	69.3	66.3	542.0
25	112.9	88.5	9.18	24.3	78.0	75.0	67.3	64.3	541.2
31.25	114.1	87.7	10.26	23.6	78.0	75.0	65.4	62.4	540.4
62.5	118.3	84.5	14.57	21.5	78.0	75.0	59.4	56.4	538.6
100	121.9	82.0	18.53	20.1	75.4	72.4	55.3	52.3	537.6
150	125.7	79.6	22.82	18.9	72.8	69.8	51.8	48.8	536.9
200	128.8	77.6	26.47	18.0	70.9	67.9	49.3	46.3	536.5
250	131.5	76.0	29.73	17.3	69.4	66.4	47.3	44.3	536.3
300	131.6	76.0	32.69	17.3	68.2	65.2	45.8	42.8	536.1
600	131.6	76.0	47.10	17.3	63.7	60.7	39.7	36.7	535.5
800	137.4	72.8	54.92	16.1	61.9	58.9	37.2	34.2	535.3
1000	142.8	70.0	61.93	15.1	60.4	57.4	35.3	32.3	535.1
1200	---	---	---	---	59.2	56.2	33.7	30.7	535.0

Table I				
★ means	Jacket color		Packing length	
05000	0	Grey	5000	500M
13050	1	Red	3050	305M
23050	2	Green	3050	305M
25000	2	Green	5000	500M
33050	3	Blue	3050	305M
55000	5	Black	5000	500M
63050	6	Orange	3050	305M
03050	0	Grey	3050	305M
45000	4	Yellow	5000	500M
65000	6	Orange	5000	500M
61000	6	Orange	1000	100M

Revision record

Date	version	change Description
Jan 16, 2026	V.0	First release

