4PR 23AWG S/FTP CAT7 LSZH CM / Part No.: LN-A0423APC7-LMS-006 Rev.: 0

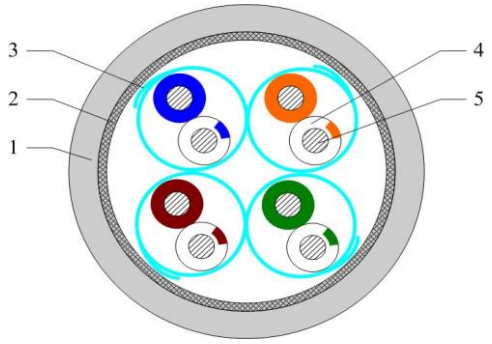
Description

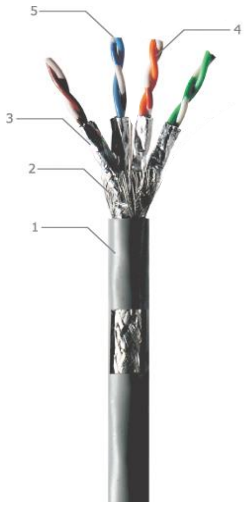
- Rated temperature: 75℃
- Reference standard: IEC 61156-5 & ISO/IEC 11801
- Product standard certification: UL
- Flame test: CM
- Solid bare copper conductor
- Colour-coded PE insulation
- LSZH jacket
- Packaging: Per customer request

Application

- 100Base-T4
- 100Base-TX
- 100VG-AnyLAN
- 1000Base-T
- 1000Base-TX
- 155Mbps ATM
- 622Mbps ATM
- 10 Gb Ethernet
- POE++ (LP 0.6A)

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
Insulation	Insulation material	Foam PE
	Insulation dimension	1.38 ±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
Cabling	Twisting lay length	≦30mm
	Cabling lay length	≦200mm
Filler	Filler material	N/A
Binder	Binder material	N/A
Shield	Individual shield & material	AL-Foil
	Primary overall shield & material	tinned copper braid
	Secondary overall shield & material	N/A
	Shield coverage (Nom)	≥40%
	Drain wire	N/A
Outer jacket	Outer jacket material	LSZH
	Outer jacket thickness (Nom)	0.58 mm
	Overall nominal dimension	7.9 ±0.3 mm
	Outer jacket rip cord	N/A
	Outer jacket colour	Per Customer Request
Mechanical characteristics	Operating temperature range	-20 ℃ ~ +75 ℃
	Bulk cable weight	59 kg/km
	Max. recommended pulling tension	110 N
	Min. bend radius (install)	8 x O.D.
	Outer jacket tensile strength	≧8. 3MPa
	Outer jacket elongation	≧100%
	Outer jacket aging condition	100 ℃ x 48 hrs
	After aging, Tensile strength	≧75% of Unaging
	After aging, Elongation	≧75% of Unaging
	Cold bend	No crack (@ -20℃ x 4hrs)
Electrical characteristics	Nom. mutual capacitance	≦5.6 nF/100m (@1kHz)
	Pair to ground capacitance unbalance	≦1600 pF/km
	Nominal velocity of propagation	74%
	Max. delay skew	25 ns/100m
	Max. conductor DC resistance	93.8Ω/km (@ 20 ℃)
	Max. conductor resistance unbalance	2% (@ 20 ℃)
	Min. insulation resistance	5000 MΩ·m
	Max. operating voltage - UL	300 V

*** Custom configuration is available upon request.**

*** Customer P/N : .**

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Marking

T.B.D

Electrical characteristics

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	3.74	23.0	78.0	75.0	78.0	75.0	552.0
8	112.6	88.8	5.24	24.5	78.0	75.0	75.9	72.9	546.7
10	111.9	89.4	5.86	25.0	78.0	75.0	74.0	71.0	545.4
16	111.9	89.4	7.41	25.0	78.0	75.0	69.9	66.9	543.0
20	111.9	89.4	8.29	25.0	78.0	75.0	68.0	65.0	542.0
25	112.9	88.5	9.29	24.3	78.0	75.0	66.0	63.0	541.2
31.25	114.1	87.7	10.41	23.6	78.0	75.0	64.1	61.1	540.4
62.5	118.3	84.5	14.88	21.5	75.5	72.5	58.1	55.1	538.6
100	121.9	82.0	19.02	20.1	72.4	69.4	54.0	51.0	537.6
150	125.7	79.6	23.56	18.9	69.8	66.8	50.5	47.5	536.9
200	128.8	77.6	27.47	18.0	67.9	64.9	48.0	45.0	536.5
250	131.5	76.0	30.97	17.3	66.4	63.4	46.0	43.0	536.3
300	131.6	76.0	34.19	17.3	65.2	62.2	44.5	41.5	536.1
600	131.6	76.0	50.10	17.3	60.7	57.7	38.4	35.4	535.5

* Cable that meet the requirements of the characteristic impedance are not required to be measured for return loss;
alternately cables that meet the return loss requirements are not required to be measured for characteristic impedance.
* If FEXT loss is greater than 90 dB, EL FEXT loss may not be calculated.

Revision history:
REV.0 2019.01.20

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