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ENGLISH

Datasheet

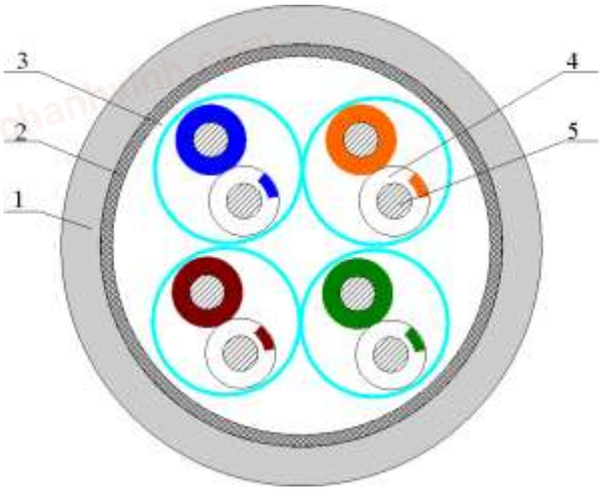
RS PRO 4 pairs S/FTP Cat7 LSZH

Stock No: 2115759

LN-A0423APC7-LIS-139-WH-100



Cross Section



1	Outer jacket
2	Braid shield
3	AL/Polyester
4	Insulation
5	Conductor

Physical characteristics

Structure	Construction	S/FTP
	Number of Pairs	4
Conductor	AWG	23AWG
	Conductor material	Solid bare copper
	Conductor dimension	0.566±0.02mm
Insulation	Insulation material	Foam PE
	Insulation dimension	1.30±0.05 mm
	Number colour	1.White/Blue(Stripe) & Blue
	(Stripe marking)	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
Shield	Individual shield & material	AL/Polyester,AL-foil facing outside
	Primary overall shield braid&material	Tinned copper
	Shield coverage Nom	30%
	Drain wire	N/A
Outer jacket	Outer jacket material	LSZH
	Outer jacket thickness (Min.)	0.4 mm
	Overall nominal dimension	7.1±0.3mm
	Outer jacket rip cord	N/A
	Outer jacket colour	White (RAL9003)
Mechanical characteristics	Operating temperature range	-20 ℃ ~ +75 ℃
	Max. recommended pulling tension	80N
	Min. bend radius (Install)	8 x O.D
	Outer jacket tensile strength	≧9 MPa
	Outer jacket elongation	≧100%
	Outer jacket aging condition	(100±2)℃ x 168 hrs
	After aging, Tensile strength	≧70% of Unaging
	After aging, Elongation	≧50% 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	9.5 Ω/100m (@ 20 ℃)
	Max. Conductor resistance unbalance	2% (@20 ℃)
	Resistance unbalance between pairs	≤5% (@ 20 ℃)
	Min. insulation resistance	5000 MΩ·m
	Max. operating voltage - UL	300 V

Performance (Test Length：100m)

Electrical characteristics:

Frequency (MHz)	Attenuation (dB/100m)	NEXT (dB Min)	PSNEXT (dB Min)	Return loss (dB Min)	ACR-F (dB Min)	PSACR-F (dB Min)	PD (ns/100m)	TCL (dB Min)
4	3.74	78.0	75.0	23.0	78.0	75.0	552.0	34.0
8	5.24	78.0	75.0	24.5	77.2	74.2	546.7	31.0
10	5.86	78.0	75.0	25.0	75.3	72.3	545.4	30.0
16	7.41	78.0	75.0	25.0	71.2	68.2	543.0	28.0
20	8.29	78.0	75.0	25.0	69.3	66.3	542.0	27.0
25	9.29	78.0	75.0	24.3	67.3	64.3	541.2	26.0
31.25	10.41	78.0	75.0	23.6	65.4	62.4	540.4	25.1
62.5	14.88	75.5	72.5	21.5	59.4	56.4	538.6	22.0
100	19.02	72.4	69.4	20.1	55.3	52.3	537.6	20.0
150	23.56	69.8	66.8	18.9	51.8	48.8	536.9	18.2
200	27.47	67.9	64.9	18.0	49.3	46.3	536.5	17.0
250	30.97	66.4	63.4	17.3	47.3	44.3	536.3	16.0
300	34.19	65.2	62.2	17.3	45.8	42.8	536.1	-
600	50.10	60.7	57.7	17.3	39.7	36.7	535.5	-

Frequency (MHz)	Input Impedance upper limit (Ω)	Input Impedance lower limit (Ω)
4	115.2	86.8
8	112.6	88.8
10	111.9	89.4
16	111.9	89.4
20	111.9	89.4
25	112.9	88.5
31.25	114.1	87.7
62.5	118.3	84.5
100	121.9	82.0
150	125.7	79.6
200	128.8	77.6
250	131.5	76.0
300	131.6	76.0
600	131.6	76.0

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Note:

* Test embient temp. is 20℃

* 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.

* Cable measurement precautions

Mutual capacitance, capacitance unbalance, characteristic impedance, return loss, insertion loss, SRL, NEXT loss, ACRF, TCL, and TCTL measurements and calculations shall be performed on cable samples of 100 m (328 ft) removed from the reel or packaging. The test sample shall be laid out along a non-conducting surface, loosely coiled, or supported in aerial spans, and all pairs shall be terminated according to the specific requirements of this annex. Other test configurations are acceptable if correlation to the reference method has been verified. In case of conflict, the reference method (100 m, off-reel, resistor terminated) shall be used to determine conformance to the minimum requirements of this standard.

Description

- Rated temperature: 75℃
- Reference standard: IEC 61156-5 & ISO/IEC 11801，
- Product standard certification:CPR
- Flame test: EUROCLASS Eca
- 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

Marking

HUAXUN LAN CABLE 4PR 23AWG EUROCLASS Eca S/FTP CAT7 LSZH 75℃ YYYYMMDDJJNN *****M

Note:

1.The jacket shall be used black ink jet print marking except white color on black jacket.

2.YYYYMMDDJJNN-Batch number.

3.*****- sequential meter marking with 1m interval.

4.Marking height :3+/-0.3mm,width 2+/-0.3mm.

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