ENGLISH

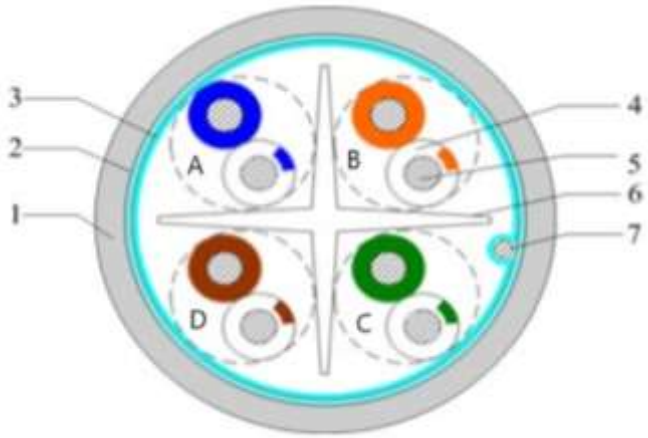
Datasheet

RS PRO 4 pairs F/UTP Cat6 LSZH

Stock No: 2115764

LN-A0424AFC6-LIS-040-BL-100

Cross Section



1	Outer jacket
2	AL/Polyester
3	Polyester tape
4	Insulation
5	Conductor
6	Filler
7	Drain wire

Physical characteristics

Structure	Construction	F/UTP
	Number of Pairs	4
Conductor	AWG	24 AWG
	Conductor material	Solid bare copper
	Conductor dimension	0.530±0.02 mm
Insulation	Insulation material	PE
	Insulation dimension	1.06±0.05 mm
	Number colour (Stripe marking)	A.White/Blue(Stripe) & Blue B.White/Orange(Stripe) & Orange C.White/Green(Stripe) & Green D.White/Brown(Stripe) & Brown
Cabling	Twisting lay length	≦30mm
	Cabling lay length	≦200mm
Filler	Filler material	PE
Shield	Individual shield & material	AL/Polyester,AL-foil facing inside
	Primary overall shield braid&material	N/A
	Shield coverage Min.	N/A
	Drain wire	Tinned copper
Outer jacket	Outer jacket material	LSZH
	Outer jacket thickness (Min.)	0.4 mm
	Overall nominal dimension	7.1±0.3 mm
	Outer jacket rip cord	N/A
	Outer jacket colour	Blue(RAL 5012)
Mechanical characteristics	Operating temperature range	-20 ℃ ~ +75 ℃
	Cold bend	No crack (@ -20℃ x 4hrs)
	Max. recommended pulling tension	80 N
	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
Electrical characteristics	Nom. mutual capacitance	≦5.6 nF/100m (@1kHz)
	Pair to ground capacitance unbalance	≦330 pF/100m
	Nominal velocity of propagation	65%
	Max. delay skew	45 ns/100m
	Max. conductor DC resistance	9.5 Ω/100m (@ 20 ℃)
	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)	ELFEXT (dB/100m)	PSELFEXT (dB/100m)	PD （ns/100m）
4	3.8	65.3	63.3	23.0	67.8	64.8	570.0
8	5.3	60.8	58.8	24.5	55.8	52.8	552.0
10	6.0	59.3	57.3	25.0	49.7	46.7	546.7
16	7.6	56.2	54.2	25.0	47.8	44.8	545.4
20	8.5	54.8	52.8	25.0	43.7	40.7	543.0
25	9.5	53.3	51.3	24.3	41.8	38.8	542.0
31.25	10.7	51.9	49.9	23.6	39.8	36.8	541.2
62.5	15.4	47.4	45.4	21.5	37.9	34.9	540.4
100	19.8	44.3	42.3	20.1	31.9	28.9	538.6
200	29.0	39.8	37.8	18.0	27.8	24.8	537.6
250	32.8	38.3	36.3	17.3	21.8	18.8	536.5

Frequency (MHz)	Input Impedance upper limit (Ω)	Input Impedance lower limit (Ω)
4	115.2	86.8
8	112.7	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
200	128.8	77.6
250	131.5	76.0

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.

* 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 61156-10&ISO/IEC 11801-1，
- Product standard certification:
- Flame test: EUROCLASS Eca
- Stranded bare copper conductor
- Colour-coded PE insulation
- LSZH jacket

Application

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

Marking

HUAXUN LAN CABLE 4PR 24AWG EUROCLASS Eca F/UTP CAT6 LSZH 75℃ IEC 60332-1
YYYYMMDDJJNN *****M

Note:

1.The jacket shall be used black 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.