





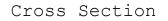
Datasheet

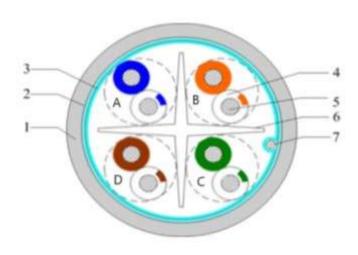
RS PRO 4 pairs F/UTP Cat6 LSZH

Stock No: 2115764

LN-A0424AFC6-LIS-040-BL-100







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

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Physical characteristics

StructureNumber of Pairs4ConductorAWG24 AWGConductor dimension0.530 ± 0.02 mmInsulationInsulation materialPEInsulation dimension1.06±0.05 mmNumber colourA.White/Blue(Stripe) & Blue(Stripe marking)B.White/Orange(Stripe) & OrangeC.White/Green(Stripe) & GreenD.White/Orange(Stripe) & GreenD.White/Blue(Stripe) & Brown= 30mmCablingTwisting lay lengthEablingTwisting lay lengthEabliedIndividual shield & materialPEIndividual shield & materialPillerFiller materialPinary overall shield braid&materialNuter jacketOuter jacket materialOuter jacketOuter jacket thickness (Min.)Outer jacketOuter jacket thickness (Min.)Outer jacket dourBlue(RAL 5012)MechanicalOperating temperature range-20 °C ~ +75 °CCold bendNo crack (@ -20°C x 4hrs)Max. recommended pulling tension30 NOuter jacket tensile strength= 9 MPaOuter jacket elongation= 9 MPaOuter jacket elongation= 50% of UnagingHer aging, Tensile strength= 70% of UnagingElectricalNom. mutual capacitance= 330 pF/100mCharacteristicsNom. mutual capacitance unbalance= 330 pF/100mMax. delay skew45 ns/100m		Construction	F/UTP			
Conductor material Conductor dimensionSolid bare copper 0.530±0.02 mmInsulationInsulation material Insulation dimensionPE 1.06±0.05 mmInsulation dimension1.06±0.05 mmNumber colour (Stripe marking)A.White/Blue(Stripe) & Blue B.White/Orange(Stripe) & Orange C.White/Green(Stripe) & Green D.White/Brown(Stripe) & BrownCablingTwisting lay length Cabling lay length= 30mmFillerFiller material Individual shield & materialPE ShieldShieldIndividual shield & material Outer jacket materialN/A N/A Drain wireOuter jacketOuter jacket material Outer jacket rip cord Outer jacket rip cord Outer jacket colourN/A Max. recommended pulling tension 80 N Outer jacket tensile strength Atter aging, Tensile strength Outer jacket leongation After aging, Tensile strength After aging, Tensile strength Max. delay skew#5.6 nF/100m (@1kHz) #300 pF/100mElectrical characteristicsNom. mutual capacitance Pair to ground capacitance Max. delay skew#5.6 nF/100m #5.6 nF/100m	Structure	Number of Pairs	4			
Insulation0.530±0.02 mmInsulationInsulation material Insulation dimensionPEInsulation dimension1.06±0.05 mmNumber colour (Stripe marking)A.White/Blue(Stripe) & Blue B.White/Orange(Stripe) & Grange C.White/Green(Stripe) & Green D.White/Brown(Stripe) & BrownCablingTwisting lay length Cabling la	Conductor	AWG	24 AWG			
InsulationInsulation material Insulation dimensionPE 1.06±0.05 mmNumber colour (Stripe marking)A.White/Blue(Stripe) & Blue B.White/Orange(Stripe) & Orange C.White/Green(Stripe) & Green D.White/Brown(Stripe) & BrownCablingTwisting lay length Cabling lay length= 30mm 200mmFillerFiller material N/APEShieldIndividual shield & material Primary overall shield braid&material N/AN/AOuter jacketOuter jacket material Outer jacket trib cordN/AOuter jacketOuter jacket trib cord Outer jacket trib cordN/AMechanical characteristicsOuter jacket rip cord Outer jacket tensile strength Atre aging, Tensile strength Atter aging, Tensil		Conductor material	Solid bare copper			
Insulation dimension1.06±0.05 mmNumber colour (Stripe marking)A.White/Blue(Stripe) & Blue B.White/Graen(Stripe) & Orange C.White/Green(Stripe) & BrownCablingTwisting lay length Cabling lay length\$30mmFillerFiller materialPEShieldIndividual shield & material Primary overall shield braid&material Shield coverage Min.N/AOuter jacketOuter jacket material Outer jacket thickness (Min.)N/AOuter jacketOuter jacket thickness (Min.) Outer jacket toolour0.4 mmOuter jacket colour Outer jacket tensile strength Outer jacket tensile strength After aging, Tensile strength After aging, Elongation\$0 NElectrical characteristicsNom. mutual capacitance Nominal velocity of propagation Max. delay skew\$5.6 nF/100m (@1kHz)		Conductor dimension	0.530 ± 0.02 mm			
Number colour (Stripe marking)A.White/Blue(Stripe) & Blue B.White/Orange(Stripe) & Orange C.White/Brown(Stripe) & Green D.White/Brown(Stripe) & Brown D.White/Brown(Stripe) & Brown D.White/Brown(S	Insulation	Insulation material	PE			
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CablingC.White/Green(Stripe) & Green D.White/Brown(Stripe) & BrownCabling allTwisting lay length \leq 30mm Cabling lay lengthFillerFiller materialPEShieldIndividual shield & materialAL/Polyester, AL-foil facing insidePrimary overall shield braid&materialN/AShield coverage Min.N/AOuter jacketOuter jacket materialLSZHOuter jacket materialLSZHOuter jacket colour0.4 mmOverall nominal dimension7.1±0.3 mmOuter jacket colourBlue(RAL 5012)Mechanical characteristicsOperating temperature range-20 °C ~ +75 °CCold bendNo crack (@ -20°C x 4hrs)Max. recommended pulling tension Outer jacket ding condition=9 MPaOuter jacket aging condition= 100%Outer jacket aging condition= 300 mOuter jacket aging condition= 300% of UnagingAfter aging, Tensile strength= 50% of UnagingAfter aging, Elongation= 50% of UnagingAfter aging, Elongation= 330 pF/100mMax. delay skew= 5300 pF/100m		Number colour	A.White/Blue(Stripe) & Blue			
CablingD.White/Brown(Stripe) & BrownCablingTwisting lay length≤ 30mmCabling lay length≤ 200mmFillerFiller materialPEShieldIndividual shield & materialAL/Polyester,AL-foil facing insidePrimary overall shield braid&materialN/AShield coverage Min.N/ADarain wireTinned copperOuter jacketOuter jacket thickness (Min.)0.4 mmOverall nominal dimension7.1±0.3 mmOuter jacket rip cordN/AOuter jacket colourBlue(RAL 5012)Mechanical characteristicsOperating temperature range Outer jacket tensile strength≥ 9 MPaOuter jacket elongation≤ 100%Outer jacket delongation≤ 100%Outer jacket aging condition(100±2) °C x 168 hrsAfter aging, Tensile strength≥ 50% of Unaging ≤ 50% of Unaging 4fter aging, ElongationElectrical characteristicsNom. mutual capacitance Nom. mutual capacitance≤ 5.6 nF/100m € 330 pF/100mMax. delay skew45 ns/100m		(Stripe marking)	B.White/Orange(Stripe) & Orange			
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 trip cord N/A Outer jacket colour Blue(RAL 5012) Mechanical characteristics Operating temperature range -20 °C ~ +75 °C Cold bend No crack (@ -20°C x 4hrs) Max. recommended pulling tension Max. recommended pulling tension 80 N N Outer jacket delongation ≥ 100% Outer jacket aging condition Outer jacket aging condition (10±2) °C x 168 hrs After aging, Tensile strength After aging, Elongation ≥ 50% of Unaging = 330 pF/100m Electrical characteristics Nom. mutual capacitance ≤ 5.6 nF/100m (@1kHz) Pair to ground capacitance unbalance			C.White/Green(Stripe) & Green			
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 toolour Blue(RAL 5012) Mechanical Operating temperature range -20 °C ~ +75 °C Cold bend No crack (@ -20°C x 4hrs) Max. recommended pulling tension 80 N Outer jacket elongation ≦ 100% Outer jacket aging condition (100±2) °C x 168 hrs After aging, Tensile strength ≅ 70% of Unaging After aging, Elongation ≅ 50% of Unaging Electrical 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			D.White/Brown(Stripe) & Brown			
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 in consistent 0.4 mm Overall nominal dimension 7.1±0.3 mm Outer jacket rip cord N/A Outer jacket colour Blue(RAL 5012) Operating temperature range -20 °C ~ +75 °C Cold bend No crack (@ -20°C x 4hrs) Max. recommended pulling tension 80 N Outer jacket ensile strength ≥9 MPa Outer jacket ensile strength ≥9 MPa Outer jacket ensile strength ≥9 MPa Outer jacket aging condition (100±2) °C x 168 hrs After aging, Tensile strength ≥70% of Unaging Electrical Nom. mutual capacitance ≤5.6 nF/100m (@1kHz) Pair to ground capacitance unbalance ≤330 pF/100m Nax. delay skew 45 ns/100m	Cabling	Twisting lay length	≦30mm			
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Primary overall shield braid&material Shield coverage Min.N/ADrain wireTinned copperOuter jacketOuter jacket materialLSZHOuter jacket thickness (Min.)0.4 mmOverall nominal dimension7.1±0.3 mmOuter jacket rip cordN/AOuter jacket colourBlue(RAL 5012)Mechanical characteristicsOperating temperature range Cold bend-20 °C ~ +75 °CCold bendNo crack (@ -20°C x 4hrs)Max. recommended pulling tension80 NOuter jacket elongation= 100%Outer jacket aging condition(100±2) °C x 168 hrsAfter aging, Tensile strength= 50% of UnagingAfter aging, Elongation= 50% of UnagingElectrical characteristicsNom. mutual capacitance Nominal velocity of propagation= 530 pF/100m 65%Max. delay skew45 ns/100m	Filler	Filler material	PE			
Shield coverage Min.N/ADrain wireTinned copperOuter jacketOuter jacket materialLSZHOuter jacket thickness (Min.)0.4 mmOverall nominal dimension7.1±0.3 mmOuter jacket rip cordN/AOuter jacket colourBlue(RAL 5012)Mechanical characteristicsOperating temperature range Operating temperature range Active tensile strength Outer jacket tensile strength Outer jacket elongation80 NOuter jacket elongation(100±2) °C × 168 hrs 50% of UnagingAfter aging, Tensile strength After aging, Elongation\$5.6 nF/100m (@1kHz)Electrical characteristicsNom. mutual capacitance Nominal velocity of propagation Max. delay skew\$5.700m	Shield	Individual shield & material	AL/Polyester,AL-foil facing inside			
Drain wireTinned copperOuter jacketOuter jacket materialLSZHOuter jacket thickness (Min.)0.4 mmOverall nominal dimension7.1±0.3 mmOuter jacket rip cordN/AOuter jacket colourBlue(RAL 5012)Mechanical characteristicsOperating temperature range Cold bend-20 °C ~ +75 °CCold bendNo crack (@ -20°C x 4hrs)Max. recommended pulling tension80 NOuter jacket elongation≥100%Outer jacket aging condition(100±2) °C x 168 hrsAfter aging, Tensile strength≥50% of UnagingAfter aging, Elongation≥50% of UnagingPair to ground capacitance≤330 pF/100mNominal velocity of propagation65%Max. delay skew45 ns/100m		Primary overall shield braid&material	N/A			
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Outer jacket thickness (Min.)0.4 mmOverall nominal dimension7.1±0.3 mmOuter jacket rip cordN/AOuter jacket colourBlue(RAL 5012)Operating temperature range-20 °C ~ +75 °CCold bendNo crack (@ -20°C x 4hrs)Max. recommended pulling tension80 NOuter jacket tensile strength≥ 9 MPaOuter jacket aging condition(100±2) °C x 168 hrsAfter aging, Tensile strength≥ 70% of UnagingAfter aging, Elongation≥ 50% of UnagingAfter aging, Elongation≤ 5.6 nF/100m (@1kHz)Pair to ground capacitance≤ 330 pF/100mNominal velocity of propagation65%Max. delay skew45 ns/100m		Drain wire	Tinned copper			
Overall nominal dimension7.1±0.3 mmOuter jacket rip cordN/AOuter jacket colourBlue(RAL 5012)Operating temperature range-20 °C ~ +75 °CCold bendNo crack (@ -20°C x 4hrs)Max. recommended pulling tension80 NOuter jacket tensile strength≥9 MPaOuter jacket aging condition(100±2) °C x 168 hrsAfter aging, Tensile strength≥70% of UnagingAfter aging, Elongation≥50% of UnagingElectrical characteristicsNom. mutual capacitance Pair to ground capacitance unbalance Nominal velocity of propagation Max. delay skew≤5.6 nF/100m 65% 45 ns/100m	Outer jacket	Outer jacket material	LSZH			
Outer jacket rip cordN/AOuter jacket colourBlue(RAL 5012)Mechanical characteristicsOperating temperature range Cold bend-20 °C ~ +75 °CNo crack (@ -20°C x 4hrs)Max. recommended pulling tension Outer jacket tensile strength Outer jacket elongation80 NOuter jacket tensile strength Outer jacket aging condition After aging, Tensile strength After aging, Elongation≥100%Electrical characteristicsNom. mutual capacitance Pair to ground capacitance unbalance Nominal velocity of propagation Max. delay skew≤5.6 nF/100m 65% 45 ns/100m		Outer jacket thickness (Min.)	0.4 mm			
Nechanical characteristicsOuter jacket colourBlue(RAL 5012)Mechanical characteristicsOperating temperature range Cold bend-20 °C ~ +75 °CNo crack (@ -20°C x 4hrs)Max. recommended pulling tension Outer jacket tensile strength Outer jacket elongation80 NOuter jacket elongation≥ 9 MPaOuter jacket aging condition After aging, Tensile strength After aging, Elongation≥ 70% of Unaging ≥ 50% of UnagingElectrical characteristicsNom. mutual capacitance Pair to ground capacitance unbalance Nominal velocity of propagation Max. delay skew≤ 5.6 nF/100m 65% 45 ns/100m		Overall nominal dimension	7.1±0.3 mm			
Mechanical characteristicsOperating temperature range-20 °C ~ +75 °CCold bendNo crack (@ -20°C x 4hrs)Max. recommended pulling tension80 NOuter jacket tensile strength≥ 9 MPaOuter jacket elongation≥ 100%Outer jacket aging condition(100±2) °C x 168 hrsAfter aging, Tensile strength≥ 70% of UnagingAfter aging, Elongation≥ 50% of UnagingElectrical characteristicsNom. mutual capacitance≤ 5.6 nF/100m (@1kHz)Pair to ground capacitance unbalance Nominal velocity of propagation≤ 330 pF/100mMax. delay skew45 ns/100m		Outer jacket rip cord	N/A			
characteristicsCold bendNo crack (@ -20 °C x 4hrs)Max. recommended pulling tension Outer jacket tensile strength ≥ 9 MPaOuter jacket elongation $\ge 100\%$ Outer jacket aging condition After aging, Tensile strength $\ge 70\%$ of UnagingAfter aging, Elongation $\ge 50\%$ of UnagingElectrical characteristicsNom. mutual capacitance Nominal velocity of propagation Max. delay skew ≤ 5.6 nF/100m 65% 45 ns/100m		Outer jacket colour	Blue(RAL 5012)			
Max. recommended pulling tension80 NOuter jacket tensile strength ≥ 9 MPaOuter jacket elongation $\geq 100\%$ Outer jacket aging condition (100 ± 2) °C x 168 hrsAfter aging, Tensile strength $\geq 70\%$ of UnagingAfter aging, Elongation $\geq 50\%$ of UnagingElectrical characteristicsNom. mutual capacitance ≤ 5.6 nF/100mNominal velocity of propagation Max. delay skew $\leq 55\%$	Mechanical	Operating temperature range	-20 ℃ ~+75 ℃			
Outer jacket tensile strength Outer jacket elongation ≥ 9 MPaOuter jacket elongation Outer jacket aging condition After aging, Tensile strength After aging, Elongation $\geq 100\%$ Electrical characteristicsNom. mutual capacitance Pair to ground capacitance unbalance Nominal velocity of propagation Max. delay skew ≤ 5.6 nF/100m 65% 45 ns/100m	characteristics	Cold bend	No crack (@ -20°C x 4hrs)			
Outer jacket elongation $\geq 100\%$ Outer jacket aging condition (100 ± 2) °C x 168 hrsAfter aging, Tensile strength $\geq 70\%$ of UnagingAfter aging, Elongation $\geq 50\%$ of UnagingElectrical characteristicsNom. mutual capacitancePair to ground capacitance unbalance Nominal velocity of propagation Max. delay skew ≤ 5.6 nF/100m 65% 45 ns/100m		Max. recommended pulling tension	80 N			
Outer jacket aging condition (100 ± 2) °C x 168 hrsAfter aging, Tensile strength After aging, Elongation $\geq 70\%$ of Unaging $\geq 50\%$ of UnagingElectrical characteristicsNom. mutual capacitance Pair to ground capacitance unbalance Nominal velocity of propagation Max. delay skew ≤ 5.6 nF/100m 65% 45 ns/100m		Outer jacket tensile strength	≧9 MPa			
After aging, Tensile strength After aging, Elongation \geq 70% of Unaging \geq 50% of UnagingElectrical characteristicsNom. mutual capacitance Pair to ground capacitance unbalance Nominal velocity of propagation Max. delay skew \leq 5.6 nF/100m 65% 45 ns/100m		Outer jacket elongation	≧100%			
After aging, Elongation≥ 50% of UnagingElectrical characteristicsNom. mutual capacitance Pair to ground capacitance unbalance Nominal velocity of propagation Max. delay skew≤ 5.6 nF/100m (@1kHz) ≤ 330 pF/100m 65% 45 ns/100m		Outer jacket aging condition	(100±2) ℃ x 168 hrs			
Electrical characteristicsNom. mutual capacitance≦ 5.6 nF/100m(@1kHz)Pair to ground capacitance unbalance Nominal velocity of propagation Max. delay skew≤ 330 pF/100m65% 45 ns/100m		After aging, Tensile strength	\geq 70% of Unaging			
characteristicsPair to ground capacitance unbalance≤ 330 pF/100mNominal velocity of propagation65%Max. delay skew45 ns/100m		After aging, Elongation	\geq 50% of Unaging			
characteristicsPair to ground capacitance unbalance≤ 330 pF/100mNominal velocity of propagation65%Max. delay skew45 ns/100m	Electrical	Nom. mutual capacitance	≦5.6 nF/100m (@1kHz)			
Nominal velocity of propagation65%Max. delay skew45 ns/100m	characteristics	-				
Max. delay skew 45 ns/100m		· ·	-			
			45 ns/100m			
Max. conductor DC resistance 9.5 Ω /100m (@ 20 °C)		Max. conductor DC resistance	9.5 Ω/100m (@ 20 ℃)			
Conductor resistance unbalance ≤2% (@ 20 °C)						
Resistance unbalance between pairs ≤5% (@ 20 °C)		Resistance unbalance between pairs				
Min. insulation resistance 5000 M Ω ·m		-				
Max. operating voltage - UL 300 V		Max. operating voltage - UL	300 V			

Electrical characteristics:							
Frequency	Attenuation	NEXT	PSNEXT	Return loss	ELFEXT	PSELFEXT	PD
(MHz)	(dB/100m)	(dB Min)	(dB Min)	(dB Min)	(dB/100m)	(dB/100m)	(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

Performance(Test length:100M)

	Input	Input		
	Impedance	Impedance		
Frequency	upper limit	lower limit		
(MHz)	(Ω)	(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 $^\circ\!\mathrm{C}$

* 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°C
- 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 $^{\circ}$ 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.