

# Cable Specification

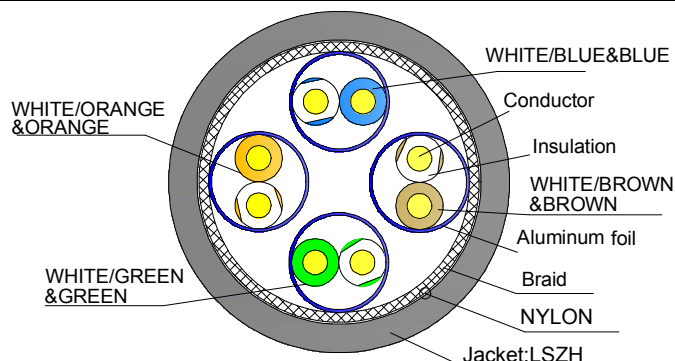
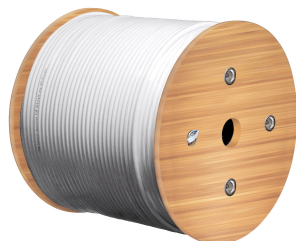
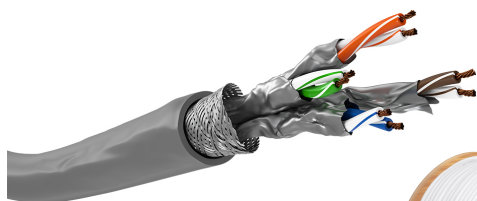


by Wentronic GmbH  
Pillmannstraße 12  
38112 Braunschweig  
Germany

Item No. 96095

LAN CAT 6a PATCH S/FTP PIMF CU LSZH 305m

## Schema



Produkt- und Verpackungen ähnlich.  
Änderungen und Irrtümer vorbehalten.

## Construction Item Description

Conductor	Construction	AWG	7/0.152 ± 0.005 mm
	Material	/	Cu
Insulation	Material	/	HD-PE
	Proportion	g/cm <sup>3</sup>	0.95
	Outside Diameter	mm	1.03 ± 0.05
	Average Thickness	mm	0.285
	Color	/	1p: white/blue & blue 2p: white/orange & orange 3p: white/green & green 4p: white/brown & brown
Pair Twist	Lay & Direction	/	1p: 7/0.152CU*1P+A
			2p:7/0.152CU*1P+A
			3p:7/0.152CU*1P+A
			4p:7/0.152CU*1P+A
Inner Assemble	Lay & Direction	/	S=4P
Filler	Ripcord	/	/
	Cross Member	/	/
Outside Shield	Shield	/	0.12
	Construction	mm	16*5/0.12AL-MG
	Material	/	AL-MG
	Coverage	%	60%
Jacket	Material	/	LSZH
	Hardness	A	89± 3
	Outside Diameter	mm	5.9± 0.10
	Average Thickness	mm	0.45-0.55MM
	Color	/	GREY
	Marking Color	/	Printing Color:Black Cable with white Ink, other color Cable, black Ink
Marking	Jacket	/	CAT 6A S/FTP (PIMF) Shielded 4x2xAWG26/7 CU STRANDED 100OHM 500MHz EIA-TIA 568 LSZH Halogen free ##925## 001M,002M,,305M Cable Printing pitch: 1 meter,

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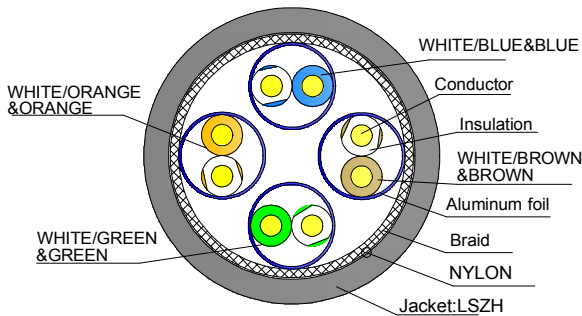


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## Schema



## Product Description

<b>1 Inner Conductor</b>	Composition :Cu
	Diameter : See table below
<b>2 Insulation</b>	Composition : HD-PE
	Diameter : See table below
<b>3 Filler</b>	Type of filler : /
	Composition : /
<b>4 Jacket</b>	Composition : LSZH
	Dimensions : See table below
	color : according to the the customer's requirements

## Dimensional Table

Nb pairs	Section	Diameter of	Diameter of insulated conductor (mm)	Minimal thickness of jacket (mm)	Diameter of outer jacket (mm)
	(AWG)	inner conductor (mm)			
4	26	7/0.152 ± 0.005	1.03± 0.05	0.45 ~ 0.55	5.9± 0.10

Diameters of inner conductor and insulated conductor must be designed in order to reach the electrical and transmission properties of CAT6.

## Color Table

Pair No.	Conductor 1	Conductor 2
1	white/Blue	Blue
2	white/Orange	Orange
3	white/Green	Green
4	white/Brown	Brown

## Reference Standard

Fire performance	Electrical performance	Reach regulation	RoHs Directive
/	ISO/IEC 11801 class Ea Channel 50M	Directive 2011/65/EU and its amendment directive (EU) 2015/863. According to European Commission Regulation 1907/2006, to inspect 219 substances of the SVHC.	

## Thermal Properties

Operating Temperature Range (°C)	-10°C to +70°C (static)
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## Transmission Properties

CAT6A ISO11801 Class Ea Channel 50M TEST, Informative standard values for a channel at key frequencies

Freq	Next	Max Attn	Min RL	Acr-N	Min NEXT	Min PS Next	Min PS Acr-N	Min Acr-F	Min PS Acr-F
Mhz	dB	dB	dB	dB	dB	dB	dB	dB	dB
1.0	65.0	4.0	19.0	61.0	65.0	62.0	58.0	63.3	60.3
16.0	53.2	8.2	18.0	45.0	53.2	50.6	42.4	39.2	36.2
100.0	39.9	20.9	12.0	19.0	39.9	37.1	16.2	23.3	20.3
250.0	33.1	33.9	8.0	-0.8	33.1	30.2	-3.7	15.3	12.3
500.0	27.9	49.3	6.0	-21.4	27.9	24.8	-24.5	9.3	6.3

## Application

The cable must support class Ea applications

## Marking

Type	ink
Color	Black Cable with white Ink, other color Cable, black Ink
Text	CAT 6A S/FTP (PIMF) Shielded 4x2xAWG26/7 CU STRANDED 100OHM 500MHz EIA-TIA 568 LSZH Halogen free ##925## 001M,002M,,,305M

## Packing

Type of Packing	Dimension (mm)	Qt of per Packing (m)	Label Type	Cut Allowed	Tolerance Length (%)
1pc in wooden spool	335*280*335	305	CPR FCA		0.5%
1pc wooden spool carton					