

# Cable Specification

**Product Name: LAN CAT 6 OUTDOOR PATCH S/FTP CCA 100m**

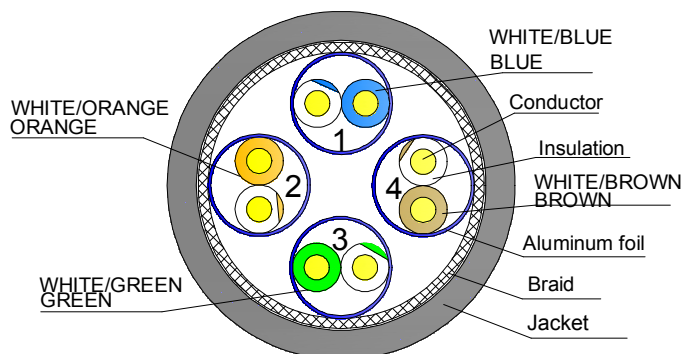


by Wentronic GmbH, Pillmannstraße 12, 38112 Braunschweig, Germany

Item no: 57195

Date: 11/22/2021

## Schema



### Construction Item Description

Conductor	Construction	AWG	7/0.16 ± 0.008 mm
	Material	/	Copper Clad Aluminum
Insulation	Material	/	HDPE
	Proportion	g/cm <sup>3</sup>	0.95
	Outside Diameter	mm	1.05 ± 0.05
	Average Thickness	mm	0.285
	Color	/	1p: blue stripe + white + blue stripe & blue 2p: orange stripe + white + orange stripe & orange 3p: green stripe + white + green stripe & green 4p: brown stripe + white + brown stripe & brown
Pair Twist	Lay & Direction	/	1p: 7/0.16CCA*1P+A
			2p: 7/0.16CCA*1P+A
			3p: 7/0.16CCA*1P+A
			4p: 7/0.16CCA*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	/	PE
	Hardness	A	89± 3
	Outside Diameter	mm	6.2± 0.20
	Average Thickness	mm	0.45-0.55MM
	Color	/	Black
	Marking Color	/	Printing Color:Black Cable with white Ink, other color Cable, black Ink
Marking	Jacket	/	CAT.6 S/FTP PATCH CORD CABLE 250 MHz 4PAIRS ISO/IEC 11801 & EN50173-1 & ANSI/TIA-568-C.2 ## 925 ## Cable Printing pitch: 1 meter,

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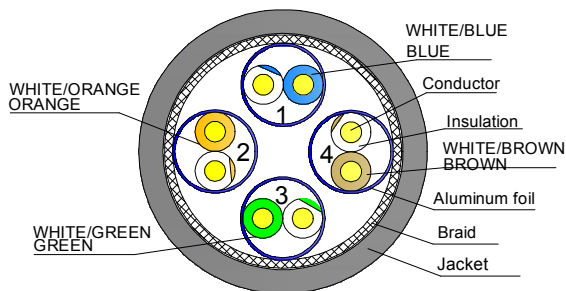
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## Product Description

<b>1 Inner Conductor</b>	Composition :Copper Clad Aluminum
	Diameter : See table below
<b>2 Insulation</b>	Composition : High density Polyethylene (HDPE)
	Diameter : See table below
<b>3 Filler</b>	Type of filler : /
	Composition : /
<b>4 Jacket</b>	Composition : PE
	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	7/0.16 ± 0.008	1.05± 0.05	0.45 ~ 0.55	6.2± 0.20

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	blue stripe + white + blue stripe	Blue
2	orange stripe + white + orange stripe	Orange
3	green stripe + white + green stripe	Green
4	brown stripe + white + brown stripe	Brown

## Reference Standard

Fire performance	Electrical performance	Reach regulation	RoHs Directive
EN 60332-1-2 UL1581.1080	ISO/IEC 11801 class E Channel 20M	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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## Electrical Properties

Characteristic impedance at 100MHz	NF EN 50289-1-11/ IEC 61156-1	100 ± 25 Ω
Spark Test	UL444	2000 ± 250VOC

## Transmission Properties

**CAT6 ISO11801 Class E Channel 20M TEST**

Res.	Length	Delay Skew	Prop. Delay	Freq	Next	Attn	RL	Acr	Elfext	PS Next	PS Acr	PS Elfext
Ω	Max	nS	nS	Mhz	dB	dB	dB	dB	dB	dB	dB	dB
<40	100m 328ft	<50	<555	1.0	65.0	4.0	19.0	61.0	63.3	62.0	58.0	60.3
				4.0	63.0	4.2	19.0	58.9	51.2	60.5	56.4	48.2
				10.0	56.6	6.6	19.0	50.0	43.2	54.0	47.5	40.3
				16.0	53.2	8.3	18.0	44.9	39.1	50.6	42.3	36.2
				20.0	51.6	9.3	17.5	42.3	37.2	49.0	39.4	34.2
				31.25	48.4	11.7	16.5	36.7	33.4	45.7	34.0	30.4
				62.5	43.4	16.9	14.0	26.5	27.3	40.6	23.7	24.3
				100.0	39.9	21.7	12.0	18.2	23.3	37.1	15.4	20.3
				125.0	38.3	24.5	11.0	13.8	21.3	35.4	10.9	18.3
				155.5	36.7	27.6	10.1	9.0	19.4	33.8	6.1	16.4
				175.0	35.8	29.5	9.6	6.3	18.4	32.9	3.4	15.4
				200.0	34.8	31.7	9.0	3.0	17.2	31.9	0.1	14.2
250.0	33.1	35.9	8.0	-2.8	15.3	30.2	-5.8	12.3				

## Application

The cable must support class E applications

## Marking

Type	ink
Color	Black Cable with white Ink, other color Cable, black Ink
Text	CAT.6 S/FTP PATCH CORD CABLE 250 MHz 4PAIRS ISO/IEC 11801 & EN50173-1 & ANSI/TIA-568-C.2 ## 925 ##

## Packing

Type of Packing	Dimension (mm)	Qt of per Packing (m)	Label Type	Cut Allowed	Tolerance Length (%)
Plastic spool	210 X 210 X 170	100m/Plastic spool		No	+/-0.5m
2PCS /Inner Box	435 X 220 X 185	100m/2pcs		No	+/-0.5m
4PCS/Master Carton	460 X 450 X 200	100m/4pcs		No	0