

## Cable Specification

**Product Name: LAN CAT 6 PATCH SFTP GRAU CCA PVC 100m CPR**

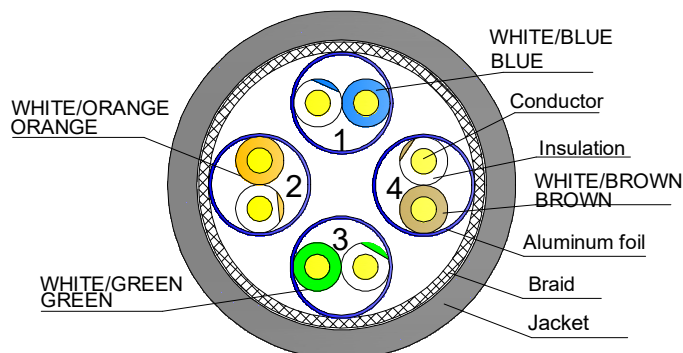


by Wentronic GmbH, Pillmannstraße 12, 38112 Braunschweig, Germany

Item no: 93953

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	/	PVC
	Hardness	A	89± 3
	Outside Diameter	mm	6.2± 0.20
	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	/	CAT6 STRANDED / PATCH CORD EIA/TIA 568 4x2xAWG 26/7 S/FTP PIMF/ SHIELDED 250 MHz ## 925 ## + CPR 001m,002m,003m...100m(meter print 001m to 100m)

# Cable Specification

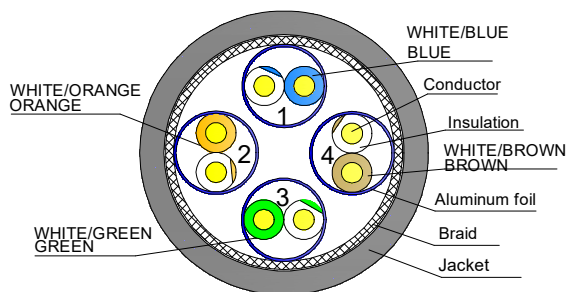
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## Product Description

<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 : PVC 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	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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## 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
$\Omega$	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	CAT6 STRANDED / PATCH CORD EIA/TIA 568 4x2xAWG 26/7 S/FTP PIMF/ SHIELDED 250 MHz ## 925 ## + CPR 001m,002m,003m...100m(meter print 001m to 100m)

## 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