

## Cat. 6 Verlegekabel, UTP, PullBox, weiß, 305m Cat. 6 solid cable, UTP, PullBox, white, 305m



### DEUTSCH

Cat. 6 Netzwerkkabel, geeignet für die strukturierte Gebäudeverkabelung im Innenraum. Das perfekte Standard Kabel.

- Spezifikation: Cat. 6
- Standards: ISO/IEC 11801, EN 50288-6-1, ANSI/TIA-568-C.2 IEC 61156-5, EN 50173, EN 50575, EN 50575:2014 + A1:2016, EN 13501-6:2014
- Übertragungsfrequenz bis zu: 250MHz
- Schirmungsklasse: UTP, mit PE Cross
- Aufbau Kabel: AWG 23/1, 0.55CU, mit Rip Cord
- Adern Typ: Massivleiter / Starr (solid)
- Kabelmantel: LSZH (Halogenfrei)
- Farbe Kabel: weiß (RAL9016)
- Kabelaufdruck:  
kabelschweiz.ch - Cat. 6 UTP AWG23/1 LSZH - ISO/IEC 11801 IEC 61156-5 EN 50288-6-1 CE - Euro-class Eca NB 2659 (ww/yy) <metermarking>
- Wicklung: Spule in Pull Box

### ENGLISH

Cat. 6 network cable, field of application: indoor structured cabling. The perfect standard cable.

- Specification: Cat. 6
- Standards: ISO/IEC 11801, EN 50288-6-1, ANSI/TIA-568-C.2 IEC 61156-5, EN 50173, EN 50575
- Transmission frequency up to: 250MHz
- Shielding class: UTP, with PE cross
- Cable structure: AWG 23/1, 0.55CU, with Rip Cord
- Wire type: solid
- Material cable sheath: LSZH (halogenfree)
- Color cable: white (RAL9016)
- Cableprint:  
kabelschweiz.ch - Cat. 6 UTP AWG23/1 LSZH - ISO/IEC 11801 IEC 61156-5 EN 50288-6-1 CE - Euro-class Eca NB 2659 (ww/yy) <metermarking>
- Winding: spool with pull box



Länge Length	Farbe Color	Artikelnummer Itemnumber	EAN Barcode	VE Packing unit	Gewicht (Kg) Weight (Kg)	Maße (mm) Size (mm)
305.0m	weiß	900000	4251720399974	1		385x355x395
305.0m	grau	900100	4251720399981	1		385x355x395
305.0m	orange	900200	4251720399998	1		385x355x395

Letzte Änderungen: 14.01.2024

**Media Connect Distribution GmbH**

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## TECHNISCHE EIGENSCHAFTEN TECHNICAL SPECIFICATIONS

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ISO / IEC Kategorie	Kat. 6 / Cat. 6
ISO/IEC Klasse	Klasse E / Class E
Standards	ISO/IEC 11801, EN 50288-6-1, ANSI/TIA-568-C.2 IEC 61156-5, EN 50173, EN 50575
Übertragungsfrequenz bis zu (MHz)	250
Übertragungsrate bis zu (Gbit/s)	1
Schirmungsklasse	U/UTP, mit PE Cross
Kabelaufbau	AWG 23/1 (0.55)
Innenleiter Material	Kupfer
Adern Typ	Massivleiter / Starr (solid)
Adern Anzahl	8 (4 x 2 twisted pair), mit Rip Cord
Kabeltyp	Rundkabel
Kabelmantelmaterial	LSZH
Kabeldurchmesser (mm)	6,3
BauPVO Euroklasse	Eca
Farbe Kabel	weiß
RAL	9016
Kabelaufdruck	kabelschweiz.ch - Cat. 6 UTP AWG23/1 LSZH - ISO/IEC 11801 IEC 61156-5 EN 50288-6-1 CE - Euro-class Eca NB 2659 (ww/yy) <metermarking>
Wicklung	Spule in Pull Box
Kennzeichnung	CE, WEEE
3P (Third Party Testing)	complies with the Category 6 performance requirements of edition 1.0 of ISO/IEC 11801-1:2017, CENELEC EN 50173- 1:2018, the Category 6 requirements of ANSI/TIA-568.2-D:2018, the requirements of CENELEC EN 50288-6-1:2013, and the requirements of edition 3.0 of IEC 61156-5:2020. Flame retardancy is verified according to IEC 60332-1-2:2014, edition 3.1 of IEC 61034-2:2013 and edition 2.0 of IEC 60754-2:2011



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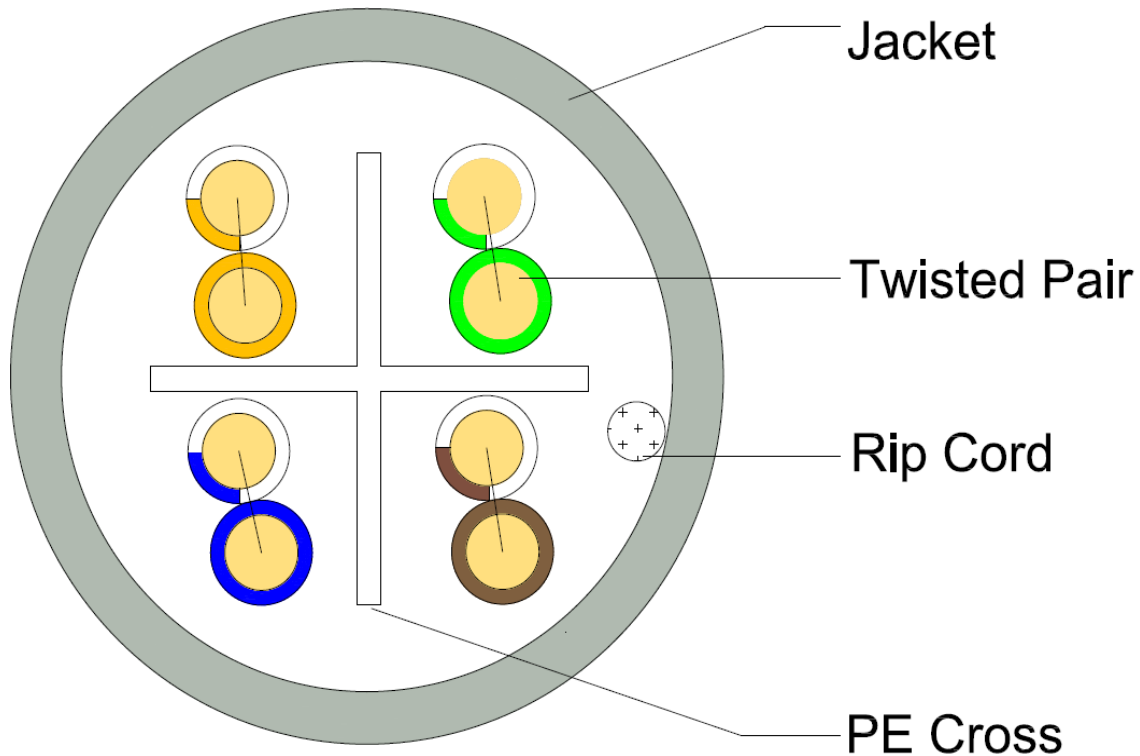
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**TECHNISCHE ZEICHNUNG**  
**TECHNICAL DRAWING**

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### COLOR CODES

Insulation Color:

- P1: White / Blue & Blue
- P2: White / Orange & Orange
- P3: White / Green & Green
- P4: White / Brown & Brown

### APPLICATIONS

- 10BASE-T (IEEE 802.3)
- 4/16 Mbps TOKEN RING (IEEE 802.5)
- 100BASE-VG-AnyLAN
- 100 Mbps TP-PMD (ANSI X3T9.5)
- 100BASE-T (IEEE 802.3)
- 55/155 Mbps ATM
- 1000BASE-T (Gigabit Ethernet)

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**TECHNISCHE ZEICHNUNG 2**  
**TECHNICAL DRAWING 2**

**CONSTRUCTION**

Conductor Material		Pure Solid Bare Copper
Conductor Number		8C(4 pairs)
Cable AWG		23
Construction( $\pm 0.005\text{mm}$ )		1/0.55
Separator		PE Cross
Rip Cord		Yes
Insulation	Material	PE
	Nom. Thickness(mm)	0.20
	Diameter( $\pm 0.05\text{mm}$ )	1.0
Jacket	Material	LSZH
	Nom. Thickness(mm)	0.50
	Diameter( $\pm 0.30\text{mm}$ )	6.30

**ELECTRICAL PERFORMANCE**

Max. Conductor DC Resistance ( $\Omega/\text{km}$ )		93
Min. Insulation Resistance (M $\Omega$ -KM)		5000
Dielectric Strength		DC-1KV/1 Min
1.0-250MHZ Characteristic Impedance(ohms)		100 $\Omega$ $\pm$ 15 $\Omega$
1.0-250MHZ Delay Skew(ns/100m)		$\leq 45$
Pair to Ground Capacitance Unbalance(Pf/100m)		$\leq 330$
Resistance Unbalance between pairs (%)		$\leq 4$
Max DC Loop Resistance		19.2 $\Omega$ /100m
Before Aging	Tensile Strength(Mpa)	$\geq 9$
	Elongation(%)	$\geq 100$
After Aging 100°C*24h*7d	Tensile Strength(Mpa)	$\geq 75\%$
	Elongation(%)	$\geq 50$
Velocity of Propagation NVP		69%

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## TECHNISCHE ZEICHNUNG 3 TECHNICAL DRAWING 3

### TIA-568-C.2

Freq.	ATTN	RL	NEXT	ELFEXT	PS NEXT	PS ELFEXT
(MHz)	(dB/100m)	(dB)	(dB)	(dB/100m)	(dB/100m)	(dB/100m)
1	2.0	20.0	74.3	67.8	72.3	64.8
4	3.8	23.0	65.3	55.8	63.3	52.8
8	5.3	24.5	60.8	49.7	58.8	46.7
10	6.0	25.0	59.3	47.8	57.3	44.8
16	7.6	25.0	56.2	43.7	54.2	40.7
20	8.5	25.0	54.8	41.8	52.8	38.8
25	9.5	24.3	53.3	39.8	51.3	36.8
31.25	10.7	23.6	51.9	37.9	49.9	34.9
62.5	15.4	21.5	47.4	31.9	45.4	28.9
100	19.8	20.1	44.3	27.8	42.3	24.8
200	29.0	18.0	39.8	21.8	37.8	18.8
250	32.8	17.3	38.3	19.8	36.3	16.8

### TIA Cat 6 Perm. Link

Wire Map	Res.	Length	Prop. Delay	Delay Skew	Freq.	Insertion Loss	NEXT	RL	ACR-N	ACR-F	PS NEXT	PS ACR-N	PS ACR-F
	$\Omega$	Max.	nS	nS	MHz	dB	dB	dB	dB	dB	dB	dB	dB
12345678	i	90 m	498	44	1	3	65.0	19.1	62.0	64.2	62.0	59.0	61.2
12345678					4	3.5	64.1	21.0	60.6	52.1	61.8	58.3	49.1
					8	5	59.4	21.0	54.4	46.1	57.0	52.1	43.1
12345678S					10	5.5	57.8	21.0	52.3	44.2	55.5	49.9	41.2
12345678S					16	7	54.6	20.0	47.6	40.1	52.2	45.2	37.1
					20	7.9	53.1	19.5	45.2	38.2	50.7	42.8	35.2
					25	8.9	51.5	19.0	42.7	36.2	49.1	40.2	33.2
					31.25	10	50.0	18.5	40.0	34.3	47.5	37.6	31.3
					62.5	14.4	45.1	16.0	30.8	28.3	42.7	28.3	25.3
					100	18.6	41.8	14.0	23.3	24.2	39.3	20.7	21.2
					200	27.4	36.9	11.0	9.6	18.2	34.3	7.0	15.2
					250	31.1	35.3	10.0	4.2	16.2	32.7	1.6	13.2

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