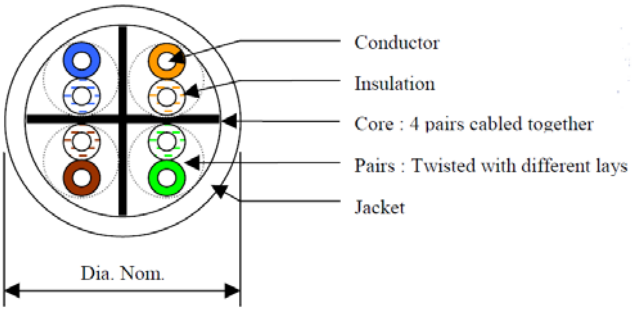
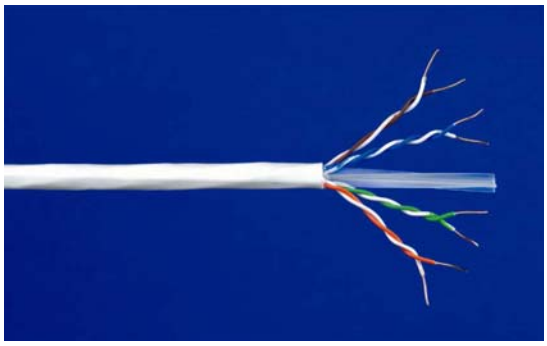
Category 6 UTP Cable

SPEC SHEET





219584-X, 219585-X

Description:

TE Connectivity's Category 6 cables exceed ISO/IEC 11801 2nd Edition and TIA requirements for Category 6 performance. They comply with all of the performance requirements for current and proposed applications such as Gigabit Ethernet, 100BASE-Tx, token ring, 155 Mbps ATM, 100 Mbps TP-PMD, ISDN, analog (broadband, baseband) and digital video and analog and digital (VoIP) voice. The cables are available in PVC and Low Smoke Zero Halogen (LSZH) and packaged Reel in a Box and on wooden reels.

Specification (text in brackets [ ] requires a choice):

Horizontal cabling shall be 23 AWG, 4-pair UTP, with a [white, grey], [PVC, LSZH]. Cable jacketing shall be leadfree. Cable shall meet the performance requirements listed in the following table [including Performance Characteristics table from back page]. Cable shall be supplied [Reel in a Box, Wooden Reels]. Horizontal cable shall be part number [219584-X, 219585-X].

Description	Nominal Diameter		Vp (nom%)	Weight	Package	Part Numbers	
	Dielectric	Outside				White	Grey
4-Pair PVC	1.074 mm	6.30 mm	66	42.0 kg/km	305 m PB	6-219584-2	--
					305m RB	219584-2	219584-4
					305m WR	219584-1	219584-5
					1000m WR	219584-3	219584-6
					500m WR	4-219584-1	4-219584-4
4-Pair LSZH	1.074 mm	6.30 mm	66	43.3 kg/km	305 m PB	6-219585-2	--
					305m RB	219585-2	219585-4
					305m WR	219585-1	219585-5
					1000 WR	219585-3	219585-6
					500m WR	4-219585-1	4-219585-4

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Performance Characteristics (exceed ISO/IEC 11801 2nd Ed. & TIA Category 6):

Frequency (MHz)	Attenuation (dB/100m)	NEXT (dB)		PSNEXT (dB)		ELFEXT (dB)		PSELFEXT (dB)		RL (dB)	
	Maximum	Minimum	Typical	Minimum	Typical	Minimum	Typical	Minimum	Typical	Minimum	Typical
1	2.0	77	99	75	92	67.8	95	64.8	88	23.0	28
4	3.8	68	91	66	82	66.0	84	64.0	76	23.0	32
8	5.3	64	82	62	76	49.7	76	47.7	68	24.5	35
10	6.0	62	85	60	79	47.8	72	45.8	65	25.0	35
16	7.6	59	81	57	74	43.7	67	41.7	60	25.0	35
20	8.5	58	83	56	75	41.8	65	39.8	59	25.0	35
25	9.5	56	78	54	71	39.8	65	37.8	59	24.3	36
31.25	10.7	55	74	53	68	37.9	65	35.9	54	23.6	35
62.5	15.4	50	73	48	63	31.9	59	29.9	51	23.0	42
100	19.8	47	71	45	66	27.8	57	25.8	45	23.0	39
200	29.0	43	64	41	58	21.8	51	19.8	44	20.0	38
250	32.8	41	67	39	56	19.8	59	17.8	40	19.0	38

Impedance: 100 ohms + 15%, 1 MHz to 250 MHz

Propagation delay: 536 ns/100 m max. @ 250 MHz

Delay Skew: 45 ns max, 1 MHz to 250 MHz

Min. Bend radius: 4 x cable diameter

Loop resistance: 30.0 ohms/100m max

Mutual capacitance: 5.6 nF max/100 m

Voltage: 300 volts AC or DC

Fire Rating: IEC 60332-1

Calorific Value: 219584 - 430.00 MJ/km
219585 - 600.00 MJ/km

Materials: Conductors : 0.554mm (23 AWG) solid bare copper
Insulation : 219584 – Polyethylene; 219585 – Polyethylene
Jacket : 219584 - FR PVC; 219585 – LSZH

Operating temperature: -20°C to +60°C

Storage temperature: -20°C to +80°C

N.B.: ***Specifications subject to change without notice.***

AMP NETCONNECT products:
www.ampnetconnect.eu

KRONE products:
www.te.com/adckrone

TE Connectivity website:
www.te.com

219584-X 219585-X 07.12 V3