

96092, 96096, 96097: CAT 6a network cable, blue			TECHNICAL DATA SHEET			
100 Ω CAT6A UTP 4pairs cable category6A - 500MHz - Eca LSZH sheath						
			96092: 50m (ROLL) 96096: 100m (ROLL) 96097: 305m (BOX)			
CABLE DESCRIPTION						
1-CONDUCTOR TYPE:SOLID-Bare copper DIAMETER:0.57mm±0.005mm AWG: 23 AWG 2-INSULATION TYPE:HDPE DIAMETER: 1.06mm±0.05mm 3-SYNTHETICAL SEPARTION FOIL: 4-DRAIN WIRE: no 5-SHIELDING: no 6-RIP CORD YES 7-OUTER JACKET TYPE: Eca LSZH COLOUR: blue THICKNESS: 0.56mm±0.05mm EXTERNAL DIAMETER: 6.3mm±0.5mm		PARAMETER		UNIT	VALUE	
		Max.linear tesistance.		Ω/km	≤68	
		Mutual capacity(nom.)		pF/m	56	
		Unbalance capacity max (p/p at 1 KHz)		pF/km	1600	
		Characteristic impedance (1 at 100 MHz)		Ω	100±15	
		VELOCITY OF PROPAGATION (f>1MHz)		%of c	66	
		Marking				
		CAT 6a network cable, U/UTP, blue CU, AWG 23/1 (solid), LSZH				
Test Request: Network Analyzer 100m						
ELECTRICAL CHARACTERISTICS						
Frequency (MHz)	Return loss(dB)	Attenuation (dB/100m)	NEXT (dB)	PSNEXT (dB)	ELFEXT (dB)	PSELFEXT (dB)
1	20	1, 9	74	72, 3	68	65
4	23	3, 7	65	63, 3	56	53
8	24, 5	5, 3	60, 7	48, 8	49, 9	46, 9
10	25	5, 9	59	57, 3	48	45
16	25	7, 5	56	54, 2	43, 9	40, 9
20	25	8, 4	55	52, 8	42	39
25	24, 3	9, 5	53, 3	41, 3	40	37
31, 25	23, 6	10, 6	52	49, 9	38, 1	35, 1
62, 5	21, 5	15, 4	47	45, 4	32, 1	29, 1
100	20, 1	19, 8	44	42, 3	28	25
200	18	29	40	37, 8	22	19
250	17, 3	32, 8	38, 3	36, 3	20	17
300	16, 8	36, 4	37, 1	34, 1	18, 5	15, 5
500	15, 2	48, 9	33, 8	30, 8	14	11
550	14, 9	51, 8	33, 2	31, 2	12, 9	9, 9
OTHER CHARACTERISTICS			 Wentronic GmbH Pillmannstraße 12 38112 Braunschweig			
Reaction to fire: Eca; EN 50575:2014+A1: 2016 FIRE BEHAVIOUR:IEC60332-2						
			Prepared by: NW	2019/12/16	Page1of1	