

SPECIFICATION SHEET

PART NUMBER : C5E-CM-SLD-BL

STYLE : 75°C 300V

COMMUNICATION CABLE

Connect Cat5e 100MHz PVC Bulk Cable

24 AWG, Solid, 4 Pair, UTP, CM - Blue (1,000 ft - 305m)

RECOGNIZED : UL

BLACK BOX NETWORK SERVICES

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SPECIFICATION

STYLE	75°C 300V COMMUNICATION CABLE	Doc. No. : C5E-CM-SLD-BL (Rev.2)
SIZE	U/UTP 24AWG×4P	ESTABLISHED DATE : 07 th Jan. 2020
STANDARD : <u>UL SAFETY UL 444 & UL1581 sec.1160, ANSI/TIA-568-C.2 CAT 5E</u> <u>2015/863/EU amending annex II 2011/65/EU (RoHS2) & REACH</u>		
APPLICATION : LAN CABLE ARE SUITABLE FOR PERFECT AUDIO DATA AND VIDEO OF TRANSFER FOR HORIZONTAL NETWORK		
CONSTRUCTION :		
CONDUCTOR	SIZE	24AWG
	CONSTRUCTION	SOLID BARE COPPER
	COND. DIAM.	Min.0.485mm, 0.0191 inch
INSULATION	AVG. THICK.	0.17 mm, 0.0069 inch
	MIN. THICK.	0.16 mm, 0.0065 inch
	DIAMETER	0.85 ± 0.05 mm, 0.0335±0.0020 inch
	MATERIAL	HDPE
	COLOR CODES	1.BLUE × WHITE/BLUE STRIPE 2.ORANGE × WHITE/ORANGE STRIPE 3.GREEN × WHITE/GREEN STRIPE 4.BROWN × WHITE/BROWN STRIPE
CABLING	PAIR STRANDED	2 CORES STRANDED
	ASSEMBLY STRANDED	4 PAIR STRANDED
JACKETED	AVG. THICK.	0.45 mm, 0.0177 inch
	MIN. THICK.	0.4 mm, 0.0157 inch
	DIAMETER	4.8 ± 0.20 mm, 0.189±0.0079 inch
	MATERIAL	PVC
	COLOR	Blue / RAL 5015
	RIP CORD	APPLIED
PACKAGING	REELEX OR SPOOL	REELEX

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ELECTRICAL & PHYSICAL PROPERTIES :			
ITEM		24AWG x 4P	
RATING TEMP VOLTAGE		75°C 300V	
CONDUCTOR DC RESISTANCE		9.38 OHM/100m/20°C MAX.	
MUTUAL CAPACITANCE		56 pF/m MAX.	
DIELECTRIC STRENGTH		AC 1.7 kV/2S.	
		DC 2.5 kV/2S	
CHARACTERISTIC IMPEDANCE		100 ± 15 (Ω 1~100 MHz)	
INSULATION	UNAGED	TENSILE STRENGTH	2400 PSI MIN. (1.69 kg/m m ²)
		ELONGATION	300% MIN.
	AGED	TENSILE STRENGTH	UNAGED MIN. 75%(100°Cx48H)
		ELONGATION	UNAGED MIN. 75%(100°Cx48H)
JACKETED	UNAGED	TENSILE STRENGTH	2000 PSI MIN.(1.41 kg/m m ²)
		ELONGATION	100% MIN.
	AGED	TENSILE STRENGTH	UNAGED MIN. 85%(100°Cx240H)
		ELONGATION	UNAGED MIN. 50%(100°Cx240H)
INSULATION SHRINKBACK		150mm, 121°C±1°Cx1HR , ≤9.5mm	
COLD BEND TEST		-20°Cx4HRS NO CRACK	
FLAME RETARDANT TEST		UL1581 sec.1160 (CM)	
AC LEAKAGE CURRENT THROUGH OVERALL JACKET		AC 1500V ≤10 mA	
DC RESISTANCE UNBALANCE		5% MAX.	
PAIR-TO-GROUND CAPACITANCE UNBALANCE		330 pF/100m MAX.	
STRUCTURAL RETURN LOSS		N/A	
NOMINAL VELOCITY OF PROPAGATION (NVP)		67%	
PROPAGATION DELAY		100 MHz 538ns/100m MAX.	
DELAY SKEW		1 ~ 100 MHz 45ns/100m MAX.	
PRINTING LEGEND : (1000~0000FT)			
BLACK BOX CORPORATION --- CONNECT CATEGORY 5E --- E196163-K CM 4PR 24AWG C(UL)US VERIFIED ANSI/TIA-568-C.2 75C U/UTP xxxxxx MM-YY 0000FT			
* MM-YY : Month/Year of manufacture		* xxxxxx : Production batch No.	
* 0000 : 1000 ~ 0000 (1000FT=Start marking) / Every 2 feet interval			

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ELECTRICAL PERFORMANCE

ITEM(dB) Frequency (MHz)	ATTENUATION MAX. (dB/100m)	NEXT MIN. (dB)	PSNEXT MIN. (dB)	ACRF MIN. (dB/100m)	PSACRF MIN. (dB/100m)	RL MIN. (dB)
1	2.0	65.3	62.3	63.8	60.8	20.0
4	4.1	56.3	53.3	51.8	48.8	23.0
8	5.8	51.8	48.8	45.7	42.7	24.5
10	6.5	50.3	47.3	43.8	40.8	25.0
16	8.2	47.2	44.2	39.7	36.7	25.0
20	9.3	45.8	42.8	37.8	34.8	25.0
25	10.4	44.3	41.3	35.8	32.8	24.3
31.25	11.7	42.9	39.9	33.9	30.9	23.6
62.5	17.0	38.4	35.4	27.9	24.9	21.5
100	22.0	35.3	32.3	23.8	20.8	20.1

Remark :

1. Spec meets ANSI/TIA-568-C.2 standard. All values are dB/ 100 m (328ft)