

Chipsmall Limited consists of a professional team with an average of over 10 year of expertise in the distribution of electronic components. Based in Hongkong, we have already established firm and mutual-benefit business relationships with customers from,Europe,America and south Asia,supplying obsolete and hard-to-find components to meet their specific needs.

With the principle of “Quality Parts,Customers Priority,Honest Operation,and Considerate Service”,our business mainly focus on the distribution of electronic components. Line cards we deal with include Microchip,ALPS,ROHM,Xilinx,Pulse,ON,Everlight and Freescale. Main products comprise IC,Modules,Potentiometer,IC Socket,Relay,Connector.Our parts cover such applications as commercial,industrial, and automotives areas.

We are looking forward to setting up business relationship with you and hope to provide you with the best service and solution. Let us make a better world for our industry!



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SPECIFICATION CONTROL DRAWING

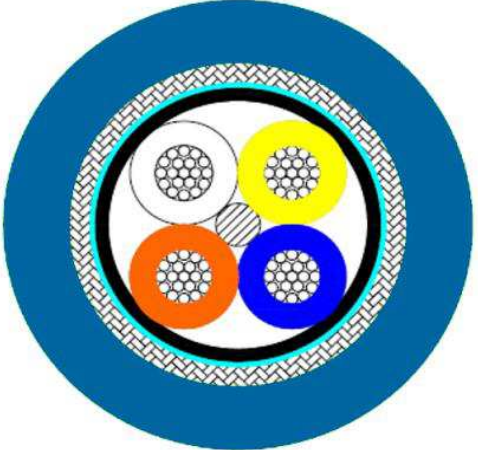
TECC0026C5

Issue 2  
5-Sep-17  
Page 1 of 1

COMMUNICATION CABLE - 4 X 22AWG CAT5E M/SN/ST/M BLUE

The complete requirements for procuring the wire described herein shall consist of this document and the issue in effect of the referenced specifications. This document takes precedence over documents referenced herein.

PRODUCT DETAILS

DESCRIPTION		PHYSICAL CHARACTERISTICS		
Application:	100BASE-TX & 1000BASE-T	<b>Structure</b>	Construction	4 X 22AWG
Rated temperature:	-40°C to +90°C		Number of Pairs	2
Hazard Rating	EN 45545-2 HL3	<b>Conductor</b>	AWG	22 AWG
Flammability Rating:	EN 60332-1-2, EN 50305 Cl 9.1.1		Conductor material	Stranded Tinned Copper
Smoke Emission	EN 61034-2		Conductor dimension(mm)	19/0.16 mm
Toxicity:	EN 50305 Cl. 9.2	<b>Insulation</b>	Insulation material	Thermoplastic Polymer
Stranded Tinned Copper Conductor			Insulation Colours	White - Yellow - Blue - Orange
Colour-Coded Insulation		<b>Inner Sheath</b>	Material	Thermoplastic Polymer
LSFRZH Jacket			Colour	Black
Packaging: Per Customer Request			Outer Diameter (mm)	3.90mm
<u>CROSS SECTION</u> 		<b>Shield</b>	Individual shield & material I	Al. Poly Tape
			Coverage	≥ 100%
			Individual shield & material II	Tinned copper braid
			Coverage	≥ 85%
		<b>Outer Sheath</b>	Material	LSZH EM104
			Colour	TE Blue - RAL 5015
			Thickness	0.90 mm
			Diameter	6.50 ± 0.20 mm
			Outer Jacket Rip cord	N/A
<b>OTHER CHARACTERISTICS</b>				
		<b>Finished Cable</b>	Finished Cable Weight	65 kg/km
			Minimum bending radius	70 mm
<b>ELECTRICAL CHARACTERISTICS</b>				
		Electrical resistance of conductor @ 20°		≤ 60 Ω/km
		Electrical resistance of shield @ 20°		≤ 120 Ω/km
		Insulation resistance @ 20°		≥ 500 MΩxkm
		Nominal velocity of propagation		≥ 66%
		Operating voltage		300 V rms
		Test Voltage for 1 minute (Conductor/Conductor)		700 V rms
		Test Voltage for 1 minute (Conductor/Shield)		700 V rms
		Mutual capacitance (Conductor/Conductor)		≤ 46 pF/m
		Unbalance Capacitance (single conductor/shield)		≤ 3.3 pF/m
		Characteristic Impedance Zo 1-100 MHz		100 ± 15 Ω
<b>JACKET MARK</b>				
"TE CONNECTIVITY - TECC0026C5 - 4X22AWG CAT 5E - 100 OHM LOT. xxxx"				

Frequency	ATT	NEXT	RL	ELFEXT
(MHz)	(dB/100m)	(dB Min)	(dB Min)	(dB)
1	3.20	65.3	23.0	64
4	6.00	56.3	24.1	52
10	9.50	50.3	25.0	44
16	12.10	47.2	25.0	40
20	13.60	45.8	25.0	38
31.25	17.10	42.9	23.6	34
62.5	24.80	38.4	21.5	28
100	32.00	35.3	20.1	24

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