



## SPECIFICATION CONTROL DRAWING

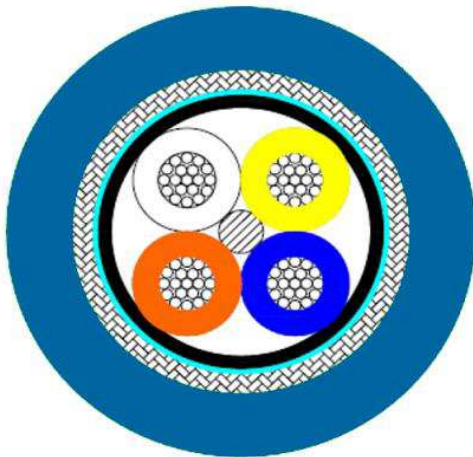
TECC0025C5

Issue 4  
10-May-17  
Page 1 of 1

## COMMUNICATION CABLE - 2 X 2 X 22AWG CAT5E M/SN/ST/M GREEN CABLE

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  Rated temperature: -40°C to +90°C Flammability Rating: EN 60332-1-2, EN 50305 Cl 9.1.1 Smoke Emission EN 61034-2 Toxicity: EN 50305 Cl. 9.2 Stranded Tinned Copper Conductor Colour-Coded Insulation LSFRZH Jacket Packaging: Per Customer Request	Structure	Construction	2 X 2 X 22AWG	
		Number of Pairs	2	
	Conductor	AWG	22 AWG	
		Conductor material	Stranded Tinned Copper	
	Insulation	Conductor dimension(mm)	19/0.16 mm	
Insulation material		Thermoplastic Polymer		
<div><u>CROSS SECTION</u></div> 	Inner Sheath	Insulation Colours	White - Yellow - Blue - Orange	
		Material	LSZH	
	Shield	Colour	Black	
		Outer Diameter (mm)	3.90mm	
	Outer Sheath	Individual shield & material I	Al. Poly Tape	
Coverage		100%		
JACKET MARK	Finished Cable	Individual shield & material II	Tinned copper braid	
		Coverage	≥ 85%	
	Other Characteristics	Material	LSZH EM104	
		Colour	TE Blue	
	Electrical Characteristics	Thickness	0.90 mm	
Diameter		6.50 ± 0.20 mm		
TE Connectivity - TECC0025C5 - 2X2X22AWG STRANDED CAT 5E 100 OHM CABLE - YEAR OF MANUFACTURE - BATCH NUMBER	Finished Cable	Outer Jacket Rip cord	N/A	
		Finished Cable Weight	65 kg/km	
TE Connectivity - TECC0025C5 - 2X2X22AWG STRANDED CAT 5E 100 OHM CABLE - YEAR OF MANUFACTURE - BATCH NUMBER	Electrical Characteristics	Minimum bending radius	70 mm	
		Electrical resistance of conductor @ 20°	≤ 60 Ω/km	
TE Connectivity - TECC0025C5 - 2X2X22AWG STRANDED CAT 5E 100 OHM CABLE - YEAR OF MANUFACTURE - BATCH NUMBER	Electrical Characteristics	Electrical resistance of shield @ 20°	≤ 120 Ω/km	
		Insulation resistance @ 20°	≥ 500 MΩxkm	
TE Connectivity - TECC0025C5 - 2X2X22AWG STRANDED CAT 5E 100 OHM CABLE - YEAR OF MANUFACTURE - BATCH NUMBER	Electrical Characteristics	Nominal velocity of propagation	≥ 66%	
		Operating voltage	300 V rms	
TE Connectivity - TECC0025C5 - 2X2X22AWG STRANDED CAT 5E 100 OHM CABLE - YEAR OF MANUFACTURE - BATCH NUMBER	Electrical Characteristics	Test Voltage for 1 minute (Conductor/Conductor)	700 V rms	
		Test Voltage for 1 minute (Conductor/Shield)	700 V rms	
TE Connectivity - TECC0025C5 - 2X2X22AWG STRANDED CAT 5E 100 OHM CABLE - YEAR OF MANUFACTURE - BATCH NUMBER	Electrical Characteristics	Mutual capacitance (Conductor/Conductor)	≤ 46 pF/m	
		Unbalance Capacitance (single conductor/shield)	≤ 3.3 pF/m	
TE Connectivity - TECC0025C5 - 2X2X22AWG STRANDED CAT 5E 100 OHM CABLE - YEAR OF MANUFACTURE - BATCH NUMBER	Electrical Characteristics	Characteristic Impedence Zo 1-100 MHz	100 ± 15 Ω	

Frequency	ATT	NEXT	RL	ELFEXT
(MHz)	(dB/100m)	(dB Min)	(dB Min)	(dB)
1	3.20	65.3	23.0	570
4	6.00	56.3	24.1	552
10	9.50	50.3	25.0	545
16	12.10	47.2	25.0	543
20	13.60	45.8	25.0	542
31.25	17.10	42.9	23.6	540
62.5	24.80	38.4	21.5	539
100	32.00	35.3	20.1	538

Tyco Electronics UK Ltd  
Faraday Road  
Dorcan  
SWINDON  
SN3 5HH  
Tel: +44 (0)1793 528171  
Fax: +44 (0)1793 572516

TE Connectivity is a trading name of Tyco Electronics UK Ltd, which is registered in England and Wales, number 550926.  
Registered office: Faraday Road, Dorcan, Swindon, SN3 5HH  
Website: [www.te.com](http://www.te.com)

This drawing and the information set forth hereon are the property of Tyco Electronics UK Ltd, and are to be held in trust and confidence. Publication, duplication, disclosure or use for any purpose not expressly authorised in writing by Tyco Electronics UK Ltd is prohibited.

This specification sheet takes precedence over documents referenced herein. As Tyco Electronics UK Ltd. reserve the right to make changes in construction without notice please contact Tyco Electronics UK Ltd to ensure that this document is the latest issue.