



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	Structure	Construction	4 X 22AWG	
Rated temperature:	-40°C to +90°C		Number of Pairs	2	
Hazard Rating	EN 45545-2 HL3	Conductor	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	Insulation	Insulation material	Thermoplastic Polymer	
Stranded Tinned Copper Conductor			Insulation Colours	White - Yellow - Blue - Orange	
Colour-Coded Insulation		Inner Sheath	Material	Thermoplastic Polymer	
LSFRZH Jacket			Colour	Black	
Packaging: Per Customer Request			Outer Diameter (mm)	3.90mm	
<p><u>CROSS SECTION</u></p>		Shield	Individual shield & material I	Al. Poly Tape	
			Coverage	≥ 100%	
			Individual shield & material II	Tinned copper braid	
			Coverage	≥ 85%	
			Outer Sheath	Material	LSZH EM104
				Colour	TE Blue - RAL 5015
		Thickness		0.90 mm	
		Diameter		6.50 ± 0.20 mm	
		Outer Jacket Rip cord	N/A		
OTHER CHARACTERISTICS					
		Finished Cable	Finished Cable Weight	65 kg/km	
			Minimum bending radius	70 mm	
ELECTRICAL CHARACTERISTICS					
			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	
JACKET MARK					
"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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