



SPECIFICATION CONTROL DRAWING

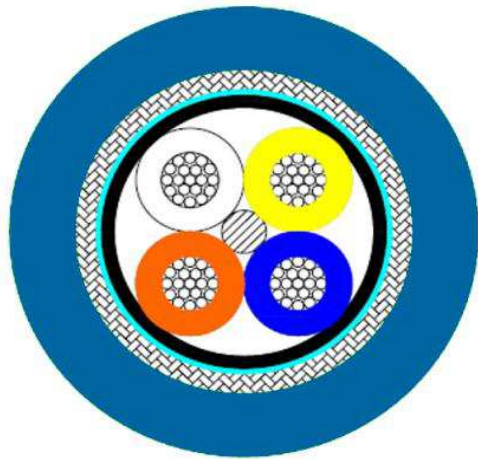
TECC0026C5

Issue 2
5-Sep-17
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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	
			Number of Pairs	2	
Rated temperature:	-40°C to +90°C	Conductor	AWG	22 AWG	
Hazard Rating	EN 45545-2 HL3		Conductor material	Stranded Tinned Copper	
Flammability Rating:	EN 60332-1-2, EN 50305 Cl 9.1.1		Conductor dimension(mm)	19/0.16 mm	
Smoke Emission	EN 61034-2	Insulation	Insulation material	Thermoplastic Polymer	
Toxicity:	EN 50305 Cl. 9.2		Insulation Colours	White - Yellow - Blue - Orange	
Stranded Tinned Copper Conductor		Inner Sheath	Material	Thermoplastic Polymer	
Colour-Coded Insulation			Colour	Black	
LSFRZH Jacket			Outer Diameter (mm)	3.90mm	
Packaging: Per Customer Request		Shield	Individual shield & material I	Al. Poly Tape	
<div>CROSS SECTION</div> 			Coverage	≥ 100%	
			Individual shield & material II	Tinned copper braid	
			Coverage	≥ 85%	
				Outer Sheath	Material
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	
JACKET MARK		Test Voltage for 1 minute (Conductor/Conductor)			700 V rms
"TE CONNECTIVITY - TECC0026C5 - 4X22AWG CAT 5E - 100 OHM LOT. xxxx"		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 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	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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