

## SPECIFICATION CONTROL DRAWING

**TECC0015C5** 

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## COMMUNICATION CABLE - FOUR PAIR 24AWG U/FTP PVC CAT5e

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 100BASE-T4, 100BASE-TX, 100VG-AnyLAN, Application:

1000Base-T (1 Gb Ethernet), 1000Base-TX

155Mbps ATM, 622Mbps ATM,

Rated temperature: 80°C

Reference Standard: 61156-6,ISO/IEC 11801

Flammability Rating: IEC 60332-1-2 UV Resistance: EN50289-4-17

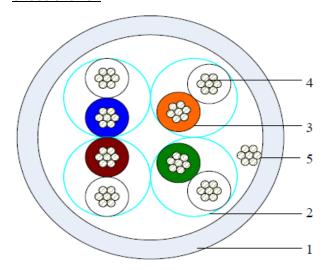
Stranded Tinned Copper Conductor

Colour-coded Insulation

**PVC Jacket** 

Packaging: Per customer request

#### **CROSS SECTION**



1	Jacket			
2	AL-Foil			
3	Insulation			
4	Conductor			
5	Drain Wire			

DUCT DETAILS					
	PHYSICAL CHARACTERIS	TICS			
Structure	Construction	U/FTP			
Structure	Number of Pairs	4 Pairs			
	AWG	24 AWG			
Conductor	Conductor material	Stranded Tinned Cooper			
	Conductor dimension(mm)	(7/0.2) ± 0.02mm			
	Insulation material	PE			
Insulation	Insulation dimension(mm)	1.32 ± 0.05 mm			
	Nom. Thickness (mm)	0.24 mm			
Cabling	Twisting lay length	≤ 30 mm			
Cabing	Cabling lay length	≤ 200 mm			
Filler	Material N/A				
Binder	Material N/A				
Shield	Individual shield & material	AL-Foil			
	Primary overall shield & material	N/A			
	Shield nom. Coverage	N/A			
	Drainwire	(7/0.2) ± 0.02mm			
Outer Jacket	Outer Jacket material	PVC			
	Outer Jacket Thickness (mm)	0.80 mm Nom.			
	Overall Nom Dimension (mm)	7.50 ± 0.30 mm			
	Outer Jacket Rip cord	N/A			
	Outer Jacket Colour	Per Customer Request			
M	ECHANICAL CHARACTER	ISTICS			
	Storage Temp Range	-40°C to +80°C			
	Operating Temp Range	-20°C to +80°C			
	Cable weight	56kg/km			
	Max. recommended pulling tension	100 N			
	Min. bend radius (Install)	10 x O.D.			
	Heat Ageing	IEC 60811-401			
	UV Resistance	EN 50289-4-17			
	Cold Bend	IEC 60811-504			
	Heat Shock	IEC 60811-509			
	LECTRICAL CHARACTERI	STICS			
Finished Cable	Nom. Mutual Capacitance	≦5.6 nF/100m (@1kHz)			
ĺ	Pair-Ground Unbalance	≦ 160 pF/100m			

Finished Cable	Nom. Mutual Capacitance	≦5.6 nF/100m (@1kHz)
	Pair-Ground Unbalance	≦ 160 pF/100m
	Nom. Velocity of Propagation	65%
	Max. Delay Skew	45 ns/100m
	Max Conductor DC Resistance	93.8 Ω/km (@20°C)
	Resistance Unbalance	≦ 2% (@20°C)
	Min. Insulation Resistance 5000 MΩ.km	
	Dielectric Strength (2 sec.)	2.5 KV D.C.
	Max. Operating Voltage - UL	300 V

### JACKET MARK

"TE CONNECTIVITY - TECC0015C5 - 4PR 24AWG STRANDED CAT 5e ANSI/TIA 568-C.2, EN 50173-6, ISO/IEC 11801 80°C CABLE - YEAR OF MANUFACTURE - BATCH NUMBER-<metre mark>"

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#### **ELECTRICAL CHARACTERISTICS CONTINUED**

Frequency	Impedance	ATT	RL	NEXT	PS NEXT	ELFEXT	PS ELFEXT	PD
(MHz)	(Ω)	(dB/100m)	(dB Min)	(ns/100m Max)				
1	100±15	2.5	20.0	65.3	62.3	63.8	60.8	570.0
4	100±15	4.9	23.0	56.3	53.3	51.8	48.8	552.0
8	100±15	6.9	25.0	50.3	47.3	43.8	40.8	545.4
10	100±15	7.8	25.0	50.3	47.3	43.8	40.8	545.4
16	100±15	9.9	25.0	47.2	44.2	39.7	36.7	543.0
20	100±15	11.1	25.0	45.8	42.8	37.8	34.8	542.0
25	100±15	12.5	24.3	44.3	41.3	35.8	32.8	541.2
31.25	100±15	14.1	23.6	42.9	39.9	33.9	30.9	540.4
62.5	100±15	20.4	21.5	38.4	35.4	27.9	24.9	538.6
100	100±15	26.4	20.1	35.3	32.3	23.8	20.8	537.6

Remark: Cable that meet the requirements of the template are not required to be measured for return loss; alternately cables that meet the return loss requirements are not required to be measured for characteristic impedance.

Approval Electronic sign off - no signatures will appear.