



SPECIFICATION CONTROL DRAWING

TECC0015C5

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3-May-16
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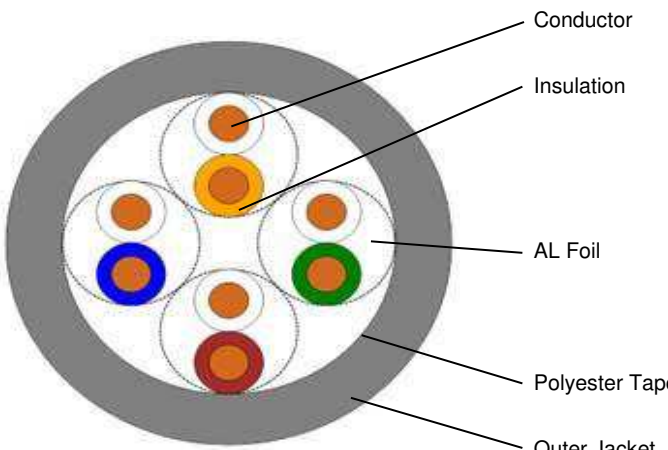
COMMUNICATION CABLE - FOUR PAIR 24AWG U/FTP PVC CAT5e

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.

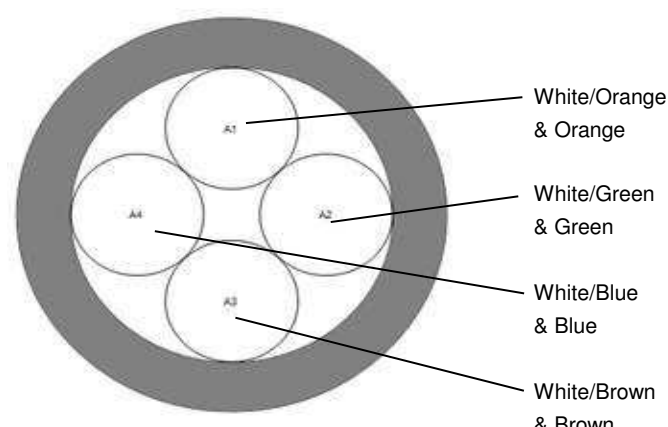
PRODUCT DETAILS

DESCRIPTION		PHYSICAL CHARACTERISTICS	
Application: 100BASE-T4, 100BASE-TX, 100VG-AnyLAN, 1000Base-T, 1000Base-TX 155Mbps ATM, 622Mbps ATM, 1 Gb Ethernet Rated temperature: 80°C Reference Standard: ANSI/TIA 568C-2.1, EN 50173-6, IEC 11801 Flammability Rating: IEC 60332-2-1 UV Resistance: EN 50289-4-17 Stranded Tinned Copper Conductor Colour-coded Insulation PVC Jacket Packaging: Per customer request	Structure	Construction Number of Pairs	U/FTP 4 Pairs
	Conductor	AWG Conductor material Conductor dimension(mm)	24 AWG Stranded Annealed Cooper 7 / 0.20mm
	Insulation	Insulation material Insulation dimension(mm) Nom. Thickness (mm)	Polyolefin 1.32 ± 0.05 mm 0.24 mm
	Cabling	Twisting lay length Cabling lay length	≤ 30 mm ≤ 200 mm
	Filler	Material	N/A
	Binder	Material	N/A
	Shield	Individual shield & material Primary overall shield & material Shield nom. Coverage Drainwire	AL-Foil Polyester Tape N/A 7 / 0.20 mm
	Outer Jacket	Outer Jacket material Outer Jacket Thickness (mm) Overall Nom Dimension (mm) Outer Jacket Rip cord Outer Jacket Colour	PVC 0.80 mm Nom. 7.50 mm N/A Per Customer Request
	MECHANICAL CHARACTERISTICS		
	Outer Jacket	Storage Temp Range Operating Temp Range Cable weight Max. recommended pulling tension Min. bend radius (Install) Heat Ageing UV Resistance Cold Bend Heat Shock	-40°C to +80°C -20°C to +80°C 56kg/km 100 N 10 x O.D. IEC 60811-402 EN 50289-4-17 IEC 60811-504 IEC 60811-509
ELECTRICAL CHARACTERISTICS			
Finished Cable	Nom. mutual capacitance Conductor DCR Max. operating voltage - UL	≤24.6 pF/m (@1kHz) ≤ 9.38Ω/100m 300 V	
JACKET MARK			
"TE CONNECTIVITY - TECC0015C5 - 4PR 24AWG STRANDED CAT 5e ANSI/TIA 568C-2.1, EN 50173-6, ISO/IEC 11801 80°C CABLE - YEAR OF MANUFACTURE - BATCH NUMBER-<metre mark>"			

CROSS SECTION



INSULATION COLOURS





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ELECTRICAL CHARACTERISTICS CONTINUED

Frequency	Impedance	ATT	RL	PSNEXT	PSELFEXT	PSACR
(MHz)	(Ω)	(dB/100m)	(dB Min)	(dB Min)	(dB Min)	(dB Min)
1	100±15	2.5	20.0	62.3	60.8	59.8
4	100±15	4.9	23.0	53.3	48.7	48.4
8	100±15	6.9	24.5	48.8	42.7	41.9
10	100±15	7.8	25.0	47.3	40.8	39.5
16	100±15	9.9	25.0	44.3	36.7	34.4
20	100±15	11.1	25.0	42.8	34.7	31.7
25	100±15	12.5	24.3	41.3	32.8	28.8
31.25	100±15	14.1	23.6	39.9	30.9	25.8
62.5	100±15	20.4	21.5	35.4	24.8	15.0
100	100±15	26.4	20.1	32.3	20.8	5.9

Note 1: 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.

Note 2: If FEXT loss is greater than 70dB, ACR-F loss may not be measured.