

# SPECIFICATION CONTROL DRAWING

**TECC0012C5** 

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# COMMUNICATION CABLE - FOUR PAIR 24AWG S/FTP 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

Conductor

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

100BASE-T

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
Solid Copper Conductor
Colour-coded Insulation

**PVC** Jacket

Packaging: Per customer request

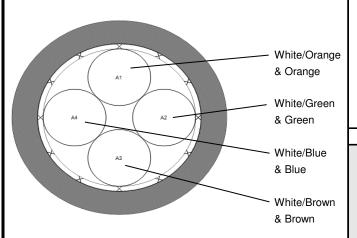
**CROSS SECTION** 

### Construction S/FTP Structure Number of Pairs 4 Pairs AWG 24 AWG Conductor Solid Plain Annealed Copper Conductor material Conductor dimension(mm) 0.52mm Insulation material Polyolefin Insulation Insulation dimension(mm) 1.19 ± 0.05 mm Nom. Thickness (mm) 0.24 mm Twisting lay length ≤ 30 mm Cabling Cabling lay length ≤ 200 mm Filler Material N/A Binder N/A Material Shield Individual shield & material AL-Foil Primary overall shield & material **Tinned Copper Wire** Shield nom. Coverage 65% Min. Drainwire N/A **Outer Jacket** PVC Outer Jacket material Outer Jacket Thickness (mm) 0.80 mm Nom. Overall Nom Dimension (mm) $7.0 \pm 0.30 \text{ mm}$ Outer Jacket Rip cord N/A Outer Jacket Colour Per Customer Request MECHANICAL CHARACTERISTICS **Outer Jacket** Storage Temp Range -40°C to +80°C

PHYSICAL CHARACTERISTICS

# Insulation AL Foil Braid Outer Jacket

### **INSULATION COLOURS**



I ECTDIC AL	CHADACTEDI	STICS

-20°C to +80°C

IEC 60811-402

EN 50289-4-17

IEC 60811-504

IEC 60811-509

55kg/km

10 x O.D.

100 N

Operating Temp Range

Max. recommended pulling tension
Min. bend radius (Install)

Cable weight

Heat Ageing

Cold Bend

Heat Shock

**UV** Resistance

ELECTRICAL CHARACTERISTICS						
Finished Cable	Nom. mutual capacitance	≦56 pF/m (@1kHz)				
	Conductor DCR	≦ 9.38Ω/100m				
	Max. operating voltage - UL	300 V				

# JACKET MARK

"TE CONNECTIVITY - TECC0012C5 - 4PR 24AWG SOLID CAT 5e ANSI/TIA 568C-2.1, 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	PSNEXT	PSELFEXT	PSACR
(1111)	(0)	(10/400)	(10.14)	(15.15.)	(15.14)	(15.4%)
(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.