



SPECIFICATION CONTROL DRAWING

TECC0013C5

Issue 7  
3-May-16  
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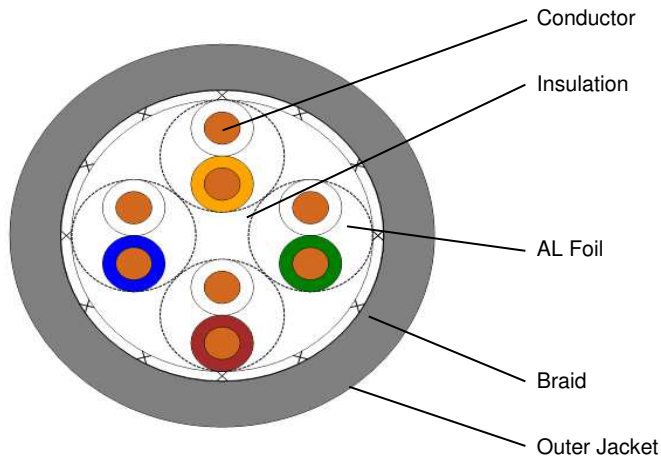
COMMUNICATION CABLE - FOUR PAIR 24AWG S/FTP FRNC CAT5e

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.

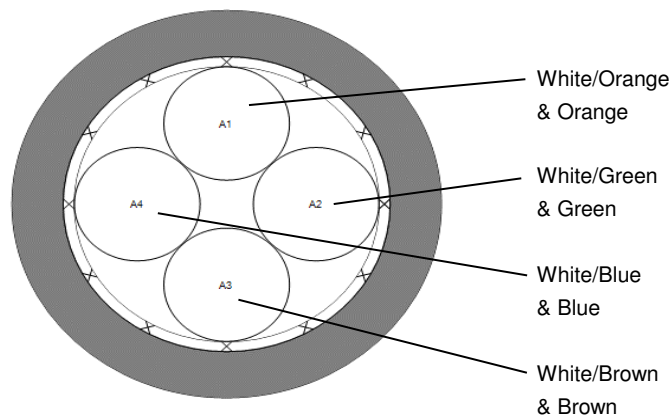
PRODUCT DETAILS

DESCRIPTION	PHYSICAL CHARACTERISTICS		
Application: 100BASE-T4, 100BASE-TX, 100VG-AnyLAN, 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 Halogen Free: IEC 60754-2 UV Resistance: EN 50289-4-17 Low Smoke: IEC 61034 Solid Copper Conductor Colour-coded Insulation LSZH FRNC Jacket Packaging: Per customer request	<b>Structure</b>	Construction Number of Pairs	S/FTP 4 Pairs
	<b>Conductor</b>	AWG Conductor material Conductor dimension(mm)	24 AWG Solid Plain Annealed Copper 0.52
	<b>Insulation</b>	Insulation material Insulation dimension(mm) Nom. Thickness (mm)	Polyolefin 1.19 ± 0.05 mm 0.24 mm
	<b>Cabling</b>	Twisting lay length Cabling lay length	≤ 30 mm ≤ 200 mm
	<b>Filler</b>	Material	N/A
	<b>Binder</b>	Material	N/A
	<b>Shield</b>	Individual shield & material Primary overall shield & material Shield nom. Coverage Drainwire	AL-Foil Tinned Copper Wire 65% Min. N/A
	<b>Outer Jacket</b>	Outer Jacket material Outer Jacket Thickness (mm) Overall Nom Dimension (mm) Outer Jacket Rip cord Outer Jacket Colour	LSZH FRNC 0.80 mm Nom. 7.0 mm N/A Per Customer Request

CROSS SECTION



INSULATION COLOURS



MECHANICAL CHARACTERISTICS

<b>Outer Jacket</b>	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 58kg/km 100 N 10 x O.D. IEC 60811-402 EN 50289-4-17 IEC 60811-504 IEC 60811-509
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ELECTRICAL CHARACTERISTICS

<b>Finished Cable</b>	Nom. mutual capacitance Conductor DCR Max. operating voltage - UL	≤56 pF/m (@1kHz) ≤ 9.38Ω/100m 300 V
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JACKET MARK

"TE CONNECTIVITY - TECC0013C5 - 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
(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.

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