



SPECIFICATION CONTROL DRAWING

TECC0012C5

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

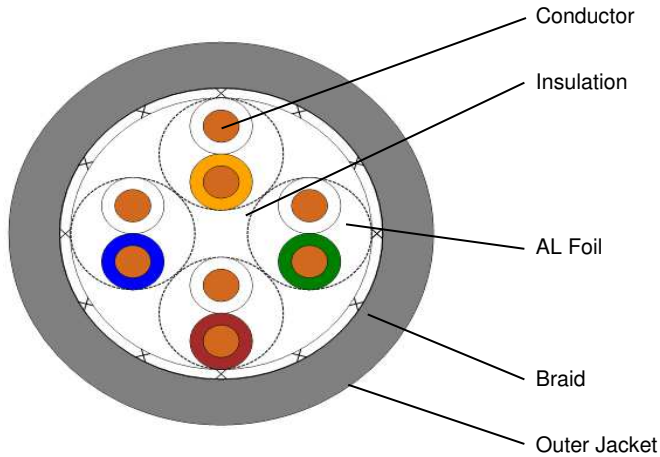
The complete requirements for procuring the wire described herein shall consist of this document and the issue in effect of the referenced specifications. This document takes precedence over documents referenced herein.

PRODUCT DETAILS

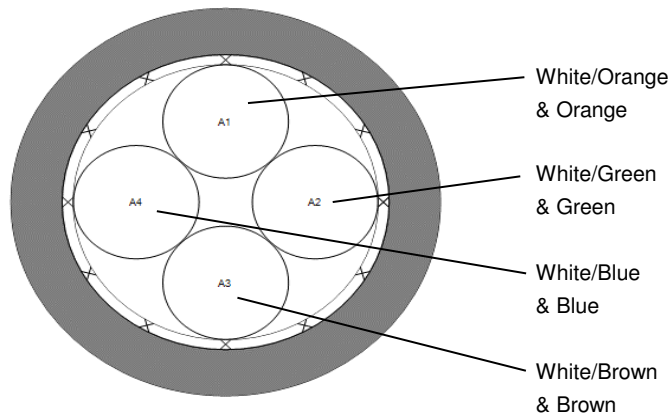
DESCRIPTION	
Application:	100BASE-T4, 100BASE-TX, 100VG-AnyLAN, 100BASE-T 155Mbps ATM, 622Mbps ATM, 1 Gb Ethernet
Rated temperature:	80°C
Reference Standard:	ANSI/TIA 568C-2.1, EN 50173-6, IEC 11801
Flammability Rating:	IEC 60332-2-1
UV Resistance:	EN 50289-4-17
Solid Copper Conductor	
Colour-coded Insulation	
PVC Jacket	
Packaging:	Per customer request

PHYSICAL CHARACTERISTICS		
<b>Structure</b>	Construction	S/FTP
	Number of Pairs	4 Pairs
<b>Conductor</b>	AWG	24 AWG
	Conductor material	Solid Plain Annealed Copper
	Conductor dimension(mm)	0.52mm
<b>Insulation</b>	Insulation material	Polyolefin
	Insulation dimension(mm)	1.19 ± 0.05 mm
	Nom. Thickness (mm)	0.24 mm
<b>Cabling</b>	Twisting lay length	≤ 30 mm
	Cabling lay length	≤ 200 mm
<b>Filler</b>	Material	N/A
<b>Binder</b>	Material	N/A
<b>Shield</b>	Individual shield & material	AL-Foil
	Primary overall shield & material	Tinned Copper Wire
	Shield nom. Coverage	65% Min.
	Drainwire	N/A
<b>Outer Jacket</b>	Outer Jacket material	PVC
	Outer Jacket Thickness (mm)	0.80 mm Nom.
	Overall Nom Dimension (mm)	7.0 ± 0.30 mm
	Outer Jacket Rip cord	N/A
	Outer Jacket Colour	Per Customer Request

CROSS SECTION



INSULATION COLOURS



MECHANICAL CHARACTERISTICS		
<b>Outer Jacket</b>	Storage Temp Range	-40°C to +80°C
	Operating Temp Range	-20°C to +80°C
	Cable weight	55kg/km
	Max. recommended pulling tension	100 N
	Min. bend radius (Install)	10 x O.D.
	Heat Ageing	IEC 60811-402
	UV Resistance	EN 50289-4-17
	Cold Bend	IEC 60811-504
	Heat Shock	IEC 60811-509

ELECTRICAL CHARACTERISTICS		
<b>Finished Cable</b>	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
(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.