

SPECIFICATION CONTROL DRAWING

TECC0013C5

Issue 7 3-May-16 Page 1 of 2

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 DETAIL	\sim
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DESCRIPTION 100BASE-T4, 100BASE-TX, 100VG-AnyLAN, Application:

155Mbps ATM, 622Mbps ATM,

1 Gb Ethernet

Rated temperature: 80°C

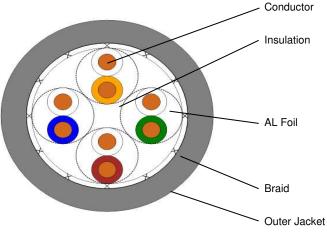
Reference Standard: ANSI/TIA 568C-2.1, EN 50173-6, IEC 11801

Flammability Rating: IEC 60332-2-1 Halogen Free: IEC 60754-2 UV Resistance: EN 50289-4-17 Low Smoke: IEC 61034 Solid Copper Conductor

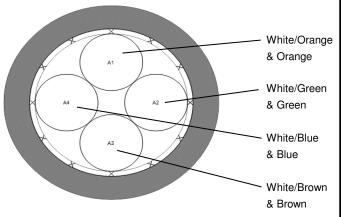
LSZH FRNC Jacket Packaging: Per customer request

CROSS SECTION

Colour-coded Insulation



INSULATION COLOURS



DUCT DETAILS			
	PHYSICAL CHARACTERIS	TICS	
Structure	Construction	S/FTP	
	Number of Pairs	4 Pairs	
	AWG	24 AWG	
Conductor	Conductor material	Solid Plain Annealed Copper	
	Conductor dimension(mm)	0.52	
	Insulation material	Polyolefin	
Insulation	Insulation dimension(mm)	1.19 ± 0.05 mm	
	Nom. Thickness (mm)	0.24 mm	
Cabling	Twisting lay length	≤ 30 mm	
	Cabling lay length	≤ 200 mm	
Filler	Material	N/A	
Filler Binder	Material Material	N/A N/A	
1 11101			
Binder	Material	N/A	
Binder	Material Individual shield & material	N/A AL-Foil	
Binder	Material Individual shield & material Primary overall shield & material	N/A AL-Foil Tinned Copper Wire	
Binder	Material Individual shield & material Primary overall shield & material Shield nom. Coverage	N/A AL-Foil Tinned Copper Wire 65% Min.	
Binder Shield	Material Individual shield & material Primary overall shield & material Shield nom. Coverage Drainwire	N/A AL-Foil Tinned Copper Wire 65% Min. N/A	
Binder Shield	Material Individual shield & material Primary overall shield & material Shield nom. Coverage Drainwire Outer Jacket material	N/A AL-Foil Tinned Copper Wire 65% Min. N/A LSZH FRNC	
Binder Shield	Material Individual shield & material Primary overall shield & material Shield nom. Coverage Drainwire Outer Jacket material Outer Jacket Thickness (mm)	N/A AL-Foil Tinned Copper Wire 65% Min. N/A LSZH FRNC 0.80 mm Nom.	
Binder Shield	Material Individual shield & material Primary overall shield & material Shield nom. Coverage Drainwire Outer Jacket material Outer Jacket Thickness (mm) Overall Nom Dimension (mm)	N/A AL-Foil Tinned Copper Wire 65% Min. N/A LSZH FRNC 0.80 mm Nom. 7.0 mm	

Outer Jacket	Storage Temp Range	-40°C to +80°C
	Operating Temp Range	-20°C to +80°C
	Cable weight	58kg/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

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 - 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.