

### SPECIFICATION CONTROL DRAWING

**TECC0016C5** 

Issue 7 3-May-16 Page 1 of 2

### COMMUNICATION CABLE - FOUR PAIR 26AWG 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	,
-----------------	---

0

**DESCRIPTION** 100BASE-T4. 100BASE-TX. 100VG-AnvLAN. Application:

> 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

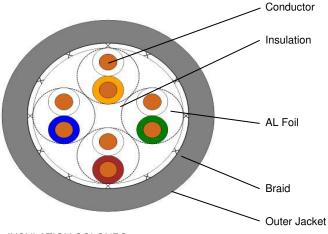
Flammability Rating: IEC 60332-2-1 Halogen Free: IEC 60754-2 UV Resistance: EN 50289-4-17 Low Smoke: IEC 61034

Stranded Tinned Copper Conductor

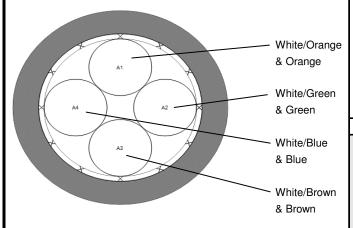
Colour-coded Insulation LSZH FRNC Jacket

Packaging: Per customer request

### **CROSS SECTION**



#### **INSULATION COLOURS**



PHYSICAL CHARACTERISTICS				
Structure	Construction	S/FTP		
	Number of Pairs	4 Pairs		
	AWG	26 AWG		
Conductor	Conductor material	Stranded Annealed Cooper		
	Conductor dimension(mm)	7 / 0.16mm		
	Insulation material	Polyolefin		
Insulation	Insulation dimension(mm)	0.98 ± 0.05 mm		
	Nom. Thickness (mm)	0.22 mm		
Cabling	Twisting lay length	≤ 30 mm		
Cabling	Cabling lay length	≤ 200 mm		
Filler	Material	N/A		
Binder	Material	N/A		
Binder Shield	Material Individual shield & material	N/A AL-Foil		
		,		
	Individual shield & material	AL-Foil		
	Individual shield & material Primary overall shield & material	AL-Foil Tinned Copper Wire		
	Individual shield & material Primary overall shield & material Shield nom. Coverage	AL-Foil Tinned Copper Wire 65% Min.		
Shield	Individual shield & material Primary overall shield & material Shield nom. Coverage Drainwire	AL-Foil Tinned Copper Wire 65% Min. N/A		
Shield	Individual shield & material Primary overall shield & material Shield nom. Coverage Drainwire Outer Jacket material	AL-Foil Tinned Copper Wire 65% Min. N/A LSZH FRNC		
Shield	Individual shield & material Primary overall shield & material Shield nom. Coverage Drainwire Outer Jacket material Outer Jacket Thickness (mm)	AL-Foil Tinned Copper Wire 65% Min. N/A LSZH FRNC 0.80 mm Nom.		
Shield	Individual shield & material Primary overall shield & material Shield nom. Coverage Drainwire Outer Jacket material Outer Jacket Thickness (mm) Overall Nom Dimension (mm)	AL-Foil Tinned Copper Wire 65% Min. N/A LSZH FRNC 0.80 mm Nom. 6.80 ±0.3mm		

## MECHANICAL CHARACTERISTICS

uter Jacket	Storage Temp Range	-40°C to +80°C
	Operating Temp Range	-20°C to +80°C
	Cable weight	50kg/km
	Max. recommended pulling tension	80 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

Finished Cable	Nom. mutual capacitance	≦56 pF/m (@1kHz)	
	Conductor DCR	≦ 14.5Ω/100m	
	Max. operating voltage - UL	300 V	
	14 61/27 144 51/		

### JACKET MARK

"TE CONNECTIVITY - TECC0016C5 - 4PR 26AWG STRANDED CAT 5e ANSI/TIA 568C-2.1, EN 50173-6, ISO/IEC 11801 80°C CABLE - YEAR OF MANUFACTURE - BATCH NUMBER-<metre mark>"

Tyco Electronics UK Ltd Faraday Road Dorcan SWINDON SN3 5HH Tel: +44 (0)1793 528171 Fax: +44 (0)1793 572516

TE Connectivity is a trading name of Tyco Electronics UK Ltd, which is registered in England and Wales, number 550926. Registered office: Faraday Road, Dorcan, Swindon, SN3 5HH

This drawing and the information set forth hereon are the property of Tyco Electronics UK Ltd, and are to be held in trust and confidence. Publication, duplication, disclosure or use for any purpose not expressly authorised in writing by Tyco Electronics UK Ltd is prohibited.

This specification sheet takes precedence over documents referenced herein. As Tyco Electronics UK Ltd. reserve the right to make changes in construction without notice please contact Tyco Electronics UK Ltd to ensure that this document is the latest issue.



### SPECIFICATION CONTROL DRAWING

**TECC0016C5** 

Issue 7 3-May-16 Page 2 of 2

### COMMUNICATION CABLE - FOUR PAIR 26AWG 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.

### 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	3.2	20.0	62.3	60.8	59.1
4	100±15	6	23.0	53.3	48.7	47.3
10	100±15	9.5	25.0	47.3	40.8	37.8
16	100±15	12.1	25.0	44.3	36.7	32.2
20	100±15	13.6	25.0	42.8	34.7	29.2
25	100±15	15.3	24.3	41.3	32.8	26.0
31.25	100±15	17.1	23.6	39.9	30.9	22.8
62.5	100±15	24.8	21.5	35.4	24.8	10.6
100	100±15	32	20.1	32.3	20.8	-0.3

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.