



SPECIFICATION CONTROL DRAWING

TECC0013C5

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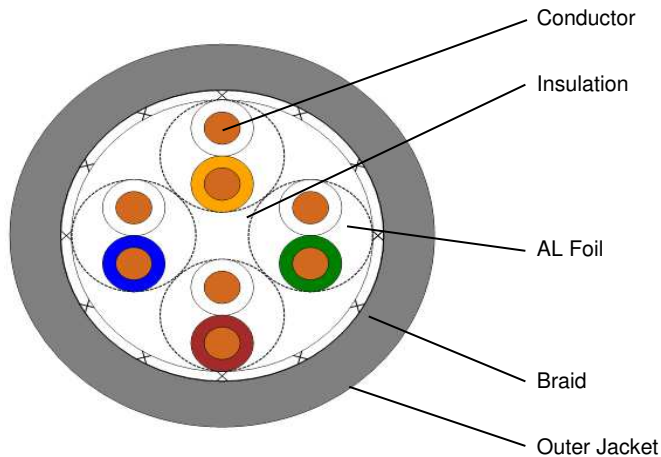
COMMUNICATION CABLE - FOUR PAIR 24AWG S/FTP FRNC CAT5e

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.

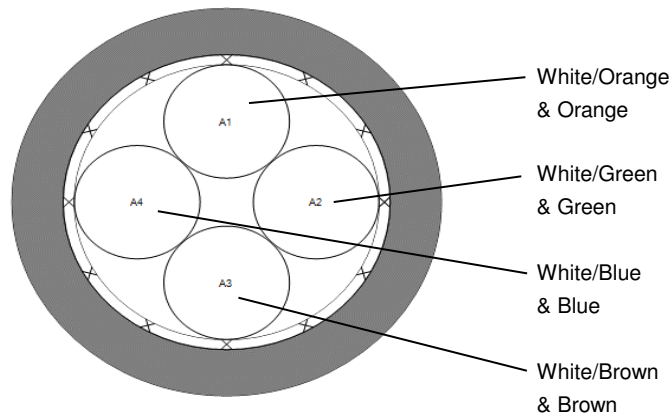
PRODUCT DETAILS

DESCRIPTION	PHYSICAL CHARACTERISTICS		
Application: 100BASE-T4, 100BASE-TX, 100VG-AnyLAN, 155Mbps ATM, 622Mbps ATM, 1 Gb Ethernet	Structure	Construction Number of Pairs	S/FTP 4 Pairs
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	Conductor	AWG	24 AWG
		Conductor material	Solid Plain Annealed Copper
	Insulation	Insulation material	Polyolefin
		Insulation dimension(mm) Nom. Thickness (mm)	1.19 ± 0.05 mm 0.24 mm
	Cabling	Twisting lay length	≤ 30 mm
		Cabling lay length	≤ 200 mm
	Filler	Material	N/A
	Binder	Material	N/A
	Shield	Individual shield & material	AL-Foil
		Primary overall shield & material	Tinned Copper Wire
		Shield nom. Coverage	65% Min.
		Drainwire	N/A
	Outer Jacket	Outer Jacket material	LSZH FRNC
		Outer Jacket Thickness (mm)	0.80 mm Nom.
		Overall Nom Dimension (mm)	7.0 mm
		Outer Jacket Rip cord	N/A
		Outer Jacket Colour	Per Customer Request

CROSS SECTION



INSULATION COLOURS



MECHANICAL CHARACTERISTICS

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

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.