



SPECIFICATION CONTROL DRAWING

TECC0011C7

Issue 6
3-May-16
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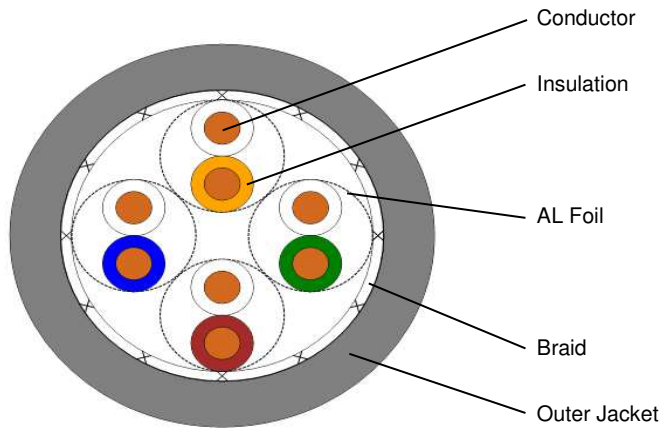
COMMUNICATION CABLE - FOUR PAIR 24AWG S/FTP CAT7 LSZH

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.

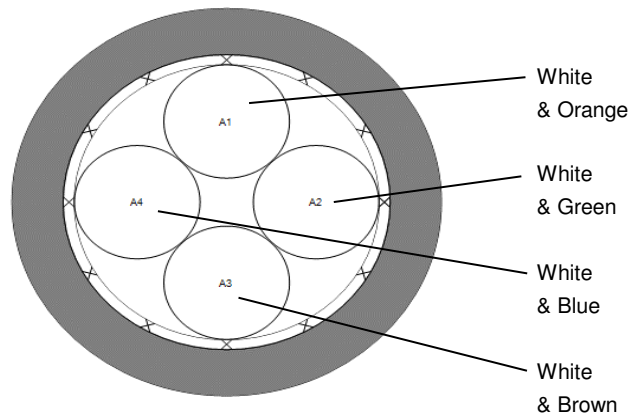
PRODUCT DETAILS

DESCRIPTION	PHYSICAL CHARACTERISTICS	
Application: 100Base-T4, 100Base-TX, 100VG-AnyLAN, 1000Base-T, 1000Base-TX 155Mbps ATM, 622Mbps ATM, 10 Gb Ethernet	Structure	Construction Number of Pairs
Rated temperature: 80°C	Conductor	AWG Conductor material Conductor dimension(mm)
Reference Standard: IEC 61156-6, ISO/IEC 11801	Insulation	Insulation material Insulation dimension(mm) Nom. Thickness (mm)
Flammability Rating: EN 45545-2 R15/R16 HL3	Cabling	Twisting lay length Cabling lay length
Ozone Resistance: EN 50306-4 Procedure B	Filler	Material
Oil resistance: EN 50306-4 24h/25°C IRM 902	Binder	Material
Oil resistance: EN 50306-4 24h/25°C IRM 903	Shield	Individual shield & material Primary overall shield & material Shield nom. Coverage Drainwire
Stranded Tinned Copper Conductor	Outer Jacket	Outer jacket material Outer jacket Thickness (mm) Overall Nom Dimension (mm) Outer Jacket Rip cord Outer jacket Colour
Colour-Coded PE Insulation		
LSFRZH Jacket		
Packaging: Per Customer Request		

CROSS SECTION



INSULATION COLOURS



MECHANICAL CHARACTERISTICS

Outer Jacket	Operating Temp Range Bulk Cable weight Max. recommended pulling tension Min. bend radius (Install) Tensile strength Elongation Ageing condition After ageing, Tensile strength After ageing, Elongation Cold bend	-20°C to +80°C 70kg/km 80 N 8 x O.D. ≥9 Mpa ≥100% 100°C x 168hrs ≥70% of Unaging ≥50% of Unaging No cracks @ -20°C 4hrs
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ELECTRICAL CHARACTERISTICS

Finished Cable	Nom. mutual capacitance Pair to ground capacitance unbalanced Nominal velocity of propagation Max. delay skew Max. conductor DC resistance Max. Conductor resistance unbalanced Min. insulation resistance Max. operating voltage - UL	≤5.6 nF/100m (@1kHz) ≤160 pF/100m 65% 25 ns/100m 145 Ω/km (@ 20 °C) 2% 5000 MΩ·km 300 V
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JACKET MARK

"TE CONNECTIVITY - TECC0011C7 - 4PR 24AWG STRANDED CAT 7 CABLE - YEAR OF MANUFACTURE - BATCH NUMBER - <metre mark>"

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ELECTRICAL CHARACTERISTICS CONTINUED

Frequency (MHz)	Characteristic Impedance Upper limit	Characteristic Impedance Lower limit	ATT	RL	NEXT	PS NEXT	FEXT	PD
	Zu (Ω)	Zl (Ω)	(dB/100m)	(dB Min)	(dB Min)	(dB Min)	(dB Min)	(ns/100m Max)
1	-	-	3.0	20.0	78.0	75.0	70.0	570.0
4	115.2	86.8	5.6	23.0	78.0	75.0	70.0	552.0
8	112.6	88.8	7.9	24.5	78.0	75.0	70.0	546.7
10	111.9	89.4	8.8	25.0	78.0	75.0	70.0	545.4
16	111.9	89.4	11.1	25.0	78.0	75.0	70.0	543.0
20	111.9	89.4	12.4	25.0	78.0	75.0	70.0	542.0
25	113.2	88.3	13.9	24.2	78.0	75.0	70.0	541.2
31.25	114.6	87.2	15.6	23.3	78.0	75.0	70.0	540.4
62.5	120.2	83.2	22.3	20.7	75.5	72.5	70.0	538.6
100	125.3	79.8	28.5	19.0	72.4	69.4	70.0	537.6
200	135.7	73.7	41.2	16.4	67.9	64.9	70.0	536.5
250	140.0	71.4	46.5	15.6	66.4	63.4	70.0	536.3
300	139.8	71.5	51.3	15.6	65.2	62.2	70.0	536.1
600	139.8	71.5	75.1	15.6	60.7	57.7	70.0	535.5

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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