



## SPECIFICATION CONTROL DRAWING

TECC0016C5

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09-Apr-21  
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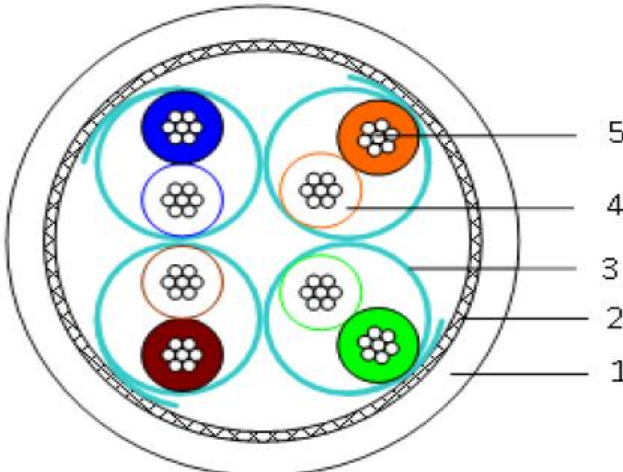
## COMMUNICATION CABLE - FOUR PAIR 26AWG S/FTP LSZH CAT5e

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, 1000Base-T (1 Gb Ethernet), 1000Base-TX 155Mbps ATM, 622Mbps ATM,  Rated temperature: 80°C Reference Standard: 61156-6,ISO/IEC 11801 Flammability Rating: IEC 60332-1-2 UV Resistance: EN50289-4-17 Method A,700 W/m2, 500hrs  Stranded Tinned Copper Conductor Colour-coded Insulation LSZH Jacket Packaging: Per customer request	Structure	Construction Number of Pairs	S/FTP 4 Pairs
	Conductor	AWG	26 AWG
		Conductor material Conductor dimension(mm)	Stranded Annealed Cooper (7/0.155) ± 0.02mm
	Insulation	Insulation material	Foamed PE
		Insulation dimension(mm) Nom. Thickness (mm)	0.99 ± 0.05 mm 0.22 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 Shield nom. Coverage Drainwire		Tinned Copper Wire 65% Min. N/A	
Outer Jacket	Outer Jacket material	LSZH	
	Outer Jacket Thickness (mm)	0.80 mm Nom.	
	Overall Nom Dimension (mm)	6.80 ± 0.30 mm	
	Outer Jacket Rip cord	N/A	
	Outer Jacket Colour	Per Customer Request	
MECHANICAL CHARACTERISTICS			
Outer Jacket	Operating Temp Range	-20°C to +80°C	
	Cable weight	50kg/km	
	Max. recommended pulling tension	100 N	
	Min. bend radius (Install)	10 x O.D.	
	Outer Jacket Tensile Strength	≥ 9 Mpa	
	Outer Jacket Elongation	≥ 100%	
	Outer Jacket Ageing Condition	100°C x 168h	
	After Ageing Tensile Strength	≥ 70% of unaged	
	After Ageing Elongation	≥ 50% of unaged	
	Cold Bend	No crack (@ -20°C x 4h)	
ELECTRICAL CHARACTERISTICS			
Finished Cable	Nom. Mutual Capacitance	≤5.6 nF/100m (@1kHz)	
	Pair-Ground Unbalance	≤ 160 pF/100m	
	Nom. Velocity of Propagation	65%	
	Max. Delay Skew	45 ns/100m	
	Max Conductor DC Resistance	145 Ω/km (@20°C)	
	Resistance Unbalance	≤ 2% (@20°C)	
	Min. Insulation Resistance	5000 MΩ.km	
	Dielectric Strength (2 sec.)	2.5 KV D.C.	
	Max. Operating Voltage - UL	300 V	
JACKET MARK			
"TE CONNECTIVITY - TECC0016C5 - 4PR 26AWG STRANDED CAT 5e ANSI/TIA 568-C.2, EN 50173-6, ISO/IEC 11801 80°C CABLE - YEAR OF MANUFACTURE - BATCH NUMBER-<metre mark>"			

CROSS SECTION



1	Jacket
2	Braid
3	AL-Foil
4	Insulation
5	Conductor

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## ELECTRICAL CHARACTERISTICS CONTINUED

Frequency	Impedance	ATT	RL	NEXT	PS NEXT	ELFEXT	PS ELFEXT	PD
(MHz)	( $\Omega$ )	(dB/100m)	(dB Min)	(dB Min)	(dB Min)	(dB Min)	(dB Min)	(ns/100m Max)
1	100 $\pm$ 15	3.2	20.0	65.3	62.3	63.8	60.8	570.0
4	100 $\pm$ 15	6.0	23.0	56.3	53.3	51.8	48.8	552.0
10	100 $\pm$ 15	9.5	25.0	50.3	47.3	43.8	40.8	545.4
16	100 $\pm$ 15	12.1	25.0	47.2	44.2	39.7	36.7	543.0
20	100 $\pm$ 15	13.6	25.0	45.8	42.8	37.8	34.8	542.0
25	100 $\pm$ 15	15.3	24.3	44.3	41.3	35.8	32.8	541.2
31.25	100 $\pm$ 15	17.1	23.6	42.9	39.9	33.9	30.9	540.4
62.5	100 $\pm$ 15	24.8	21.5	38.4	35.4	27.9	24.9	538.6
100	100 $\pm$ 15	32.0	20.1	35.3	32.3	23.8	20.8	537.6

Remark : 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.

Heat ageing	EN50289-4-17 Method A,700 W/m2,500hrs
Cold bend	IEC 60811-401
Heat shock	IEC 60811-504
Halogen Free	IEC 60811-509
Low Smoke	IEC 60754
UV Resistance	IEC 61034

Approval

Electronic sign off - no signatures will appear.