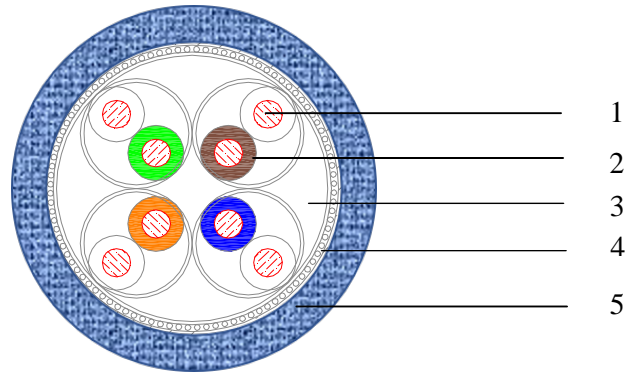
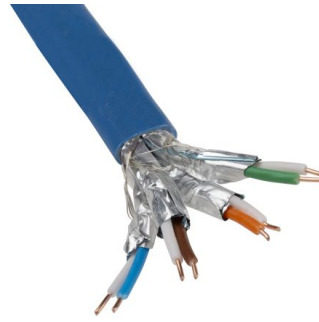


Datasheet



AC2241/S/FTP

CAT 7 S/FTP LSZH (900 MHz)

Applications

- Support current and future Category 6A and 7 applications for fixed installations, supports protocols such as: 10GBase-T (10 Gigabit Ethernet), 1000Base-T (Gigabit Ethernet), 100 Base-T, 10 Base-T, FDDI, ATM

Construction & Dimensions

1.	Conductor Material Diameter	Solid Bare Copper AWG 23
2.	Insulation Material Insulation diameter	Skin-Foam-Skin Polyethylene 1.38+-0.1 mm x 2C Twist
3.	Cable core Pair Foil	Each pair is twisted, Unshielded Laminated aluminium-polyester
	Number of shielded pairs	4, all twisted together
	Colour code pair 1	Blue / White
	Colour code pair 2	Orange / White
	Colour code pair 3	Green / White
	Colour code pair 4	Brown / White
4.	Braid Material Construction	Solid tinned copper 0.12+- 0.008x8x6
5.	Jacket Material Thickness (mm) Nominal Diameter Diameter tolerance Colour	S-FTP/LSZH 0.8 mm 7.8 mm +/- 0.25 mm Blue.

IS Cable Parameters

Cat7 Cable

Resistance: 0.1 Ohms/metre

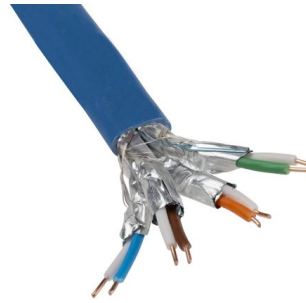
Inductance: 0.458 uH/metre

L/R: 4.58 uH/Ohm

Capacitance : 78 pF/m

Note -

Inductance and Resistance are the loop measurements on two cores (shorted at far end). Capacitance is the most onerous measurement obtained (one pair to screen)



Electrical characteristics

Reference standard : ISO/IEC 61156-6 edition 2.0

Low frequency and D.C. (at 20°C)	Specification	Unit
D.C. resistance conductor	< 76.1	Ω/100m
Rated Temperature (C)	70	C
Velocity Ratio	78%	%
Impedance (Ω)	1-100MHz	100+-15
	100-250MHz	100+-20
	250-500MHz	100+-25
	500-1000MHz	100+-30

Performance							
Frequency (MHz)	Attenuation (dB/100m)	NEXT (dB/100m)	PSNEXT (dB/100m)	ELFEXT (dB/100m)	Frequency (MHz)	PSELFEXT (dB/100m)	Return loss (dB/100m)
1.00	2.01	78.00	75.00	78.00	1.00	75.00	20.00
4.00	3.74	78.00	75.00	78.00	4.00	75.00	23.01
10.00	5.86	78.00	75.00	78.00	10.00	75.00	25.00
16.00	7.41	78.00	75.00	71.22	16.00	68.22	25.00
31.25	10.41	78.00	75.00	65.40	31.25	62.40	23.64
62.50	14.88	75.46	72.46	59.38	62.50	56.38	21.54
100.00	19.02	72.40	69.40	55.30	100.00	52.30	20.11
250.00	30.97	66.43	63.43	47.34	250.00	44.34	17.32
500.00	45.26	61.92	58.92	41.32	500.00	38.32	17.30
600.00	50.10	60.73	57.73	39.74	600.00	36.74	17.30
900.00	63.01	58.09	55.09	36.22	900.00	33.22	13.43

RoHS GUIDELINE			
We operate according to the following standards			
Control Item	Standard	Testing Method	Testing Equipment
Cadmium content (Cd)	<0.01%	EN1122	ICP-AES
Lead content (Pb)	<0.1%	EPA3050B	ICP-AES
Mercury content (Hg)	<0.1%	EPA3052	ICP-AES
Chromium (VI) content	<0.1%	EPA3060(UN-VIS)	ICP-AES
Polybrominated Biphenyls (PBB)	Forbidden	GC/MS	
Polybrominated Diphenyl Ether (PBDE)	Forbidden	GC/MC	

