

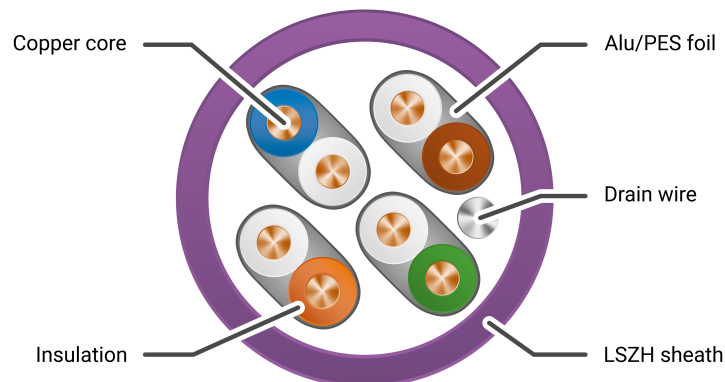
5254SH1

**CAT6A U/FTP 1x4P - 525 MHz LSZH Dca
Cable – Coil of 100m**



DESCRIPTION

CAT6A cable used for shielded cabling solutions for horizontal or vertical configurations. Combination of individual shielding and high-tech assembly giving high electromagnetic immunity: coupling attenuation > 75 dB.



ADVANTAGES

- Tested up to 525 MHz
- Very high electromagnetic immunity : 10 Gbit/s



CONSTRUCTION & TECHNICAL PERFORMANCE

Product Type	525xSHyyyyyz
Core gauge	AWG23
Assembly type	Pairs
Outer Sheath Material	LSZH
Color	Purple RAL 4001
Nom. diameter of the outer sheath (mm)	7
Ground drain presence	No
Shielding type	U/FTP
Insulation Color Code	Blue and White blue or White - Orange and White orange or White - Green and White green or White - Brown and White brown or White
Nominal insulation diameter (mm)	1,25

ELECTRICAL CHARACTERISTICS

Loop resistance	154
Minimum insulation resistance	> 5000 MΩ x km
Service Voltage (V)	<250Vdc
Linear electrical resistance (Ω/Km)	77
Mutual Capacity	< 45 pF
Capacity Imbalance	< 1600 pF/km

TRANSMISSION CHARACTERISTICS

Coupling attenuation (dB)	75
Delay skew	< 30
Unbalance resistance	< 2
Propagation speed (%)	78
Segregation Class	C
Performance Category	Category 6A
Data Transmission Standard	EIA/TIA 568-C.2 Cat6A, EN 50173-1: 2011 Classe Ea, ISO 11801 Ed.3 Classe Ea
Characteristic Impedance (Ohms)	100
Conductor/Shield Capacitance	1,6 nF/km
Conductor/Conductor Capacitance	45 nF/km

MECHANICAL CHARACTERISTICS

Bending Radius in Fixed Installation	8 x Ø ext
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MECHANICAL CHARACTERISTICS

Bending Radius in Mobile Installation	15 x Ø ext
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ENVIRONMENTAL CHARACTERISTIC

CPR classification	Dca s2, d2, a2
Fire behaviour	IEC 60332-1
Smoke emission	IEC 61034-1 & -2
Gas emission	IEC 60754-2
RoHS Compliance	Compliant with the RoHS directive
Component Standard	IEC 61156-5 Cat6A

ADDITIONAL INFORMATION

Product Packaging	Coil of 100m
Weight (Kg)	0.055

TRANSMISSION PERFORMANCE

FREQUENCY (Mhz)	INSERTION LOSS (dB/100M)		NEXT (dB/100M)		PSNEXT (dB/100M)		ACR-F (dB/100M)		PSACR-F (dB/100M)		RETURN LOSS (dB/100M)	
	Standard	Typical Value	Standard	Typical Value	Standard	Typical Value	Standard	Typical Value	Standard	Typical Value	Standard	Typical Value
4	-3,8	-3,6	-66,3	-102,1	-63,3	-99,1	-56,0	-102,5	-53,0	-99,5	-23,0	-26,5
10	-5,9	-5,5	-60,3	-113,3	-57,3	-110,3	-48,0	-103,4	-45,0	-100,4	-25,0	-33,3
16	-7,5	-7,0	-57,2	-111,7	-54,2	-108,7	-43,9	-104,9	-40,9	-101,9	-25,0	-33,5
20	-8,4	-7,9	-55,8	-112,1	-52,8	-109,1	-42,0	-102,7	-39,0	-99,7	-25,0	-37,7
31,25	-10,5	-10,1	-52,9	-113,9	-49,9	-110,9	-38,1	-101,1	-35,1	-98,1	-23,6	-34,5
62,5	-15,0	-14,6	-50,9	-110,8	-47,9	-107,8	-32,1	-103,5	-29,1	-100,5	-21,5	-34,5
100	-19,1	-18,5	-48,4	-113,1	-45,4	-110,1	-28,0	-96,2	-25,0	-93,2	-20,1	-35,0
125	-21,5	-21,5	-45,3	-109,5	-42,3	-112,5	-26,1	-95,5	-23,1	-98,5	-19,4	-35,2
155	-24,1	-24,1	-42,4	-109,3	-39,4	-112,3	-24,2	-90,2	-21,2	-93,2	-18,8	-35,6
200	-27,6	-26,5	-40,8	-108,9	-37,8	-105,9	-22,0	-86,9	-19,0	-83,9	-18,0	-36,4
250	-31,1	-29,0	-39,3	-108,5	-36,3	-111,5	-20,0	-85,3	-17,0	-88,3	-17,3	-32,0
300	-34,3	-32,7	-38,1	-108,0	-35,1	-105,0	-18,5	-83,2	-15,5	-80,2	-17,3	-29,2
350	-37,2	-35,4	-37,1	-108,0	-34,1	-111,0	-17,1	-80,1	-14,1	-83,1	-17,3	-39,0
400	-40,1	-37,9	-36,3	-107,5	-33,3	-104,5	-16,0	-78,3	-13,0	-75,3	-17,3	-28,5
450	-42,7	-40,2	-35,5	-108,0	-32,5	-111,0	-14,9	-77,0	-11,9	-80,0	-17,3	-28,5
500	-45,3	-43,1	-34,8	-108,0	-31,8	-105,0	-14,0	-75,5	-11,0	-72,5	-17,3	-28,0
525	N/A	-44,0	N/A	-100,0	N/A	-97,0	N/A	-70,0	N/A	-67,0	N/A	-25,0