

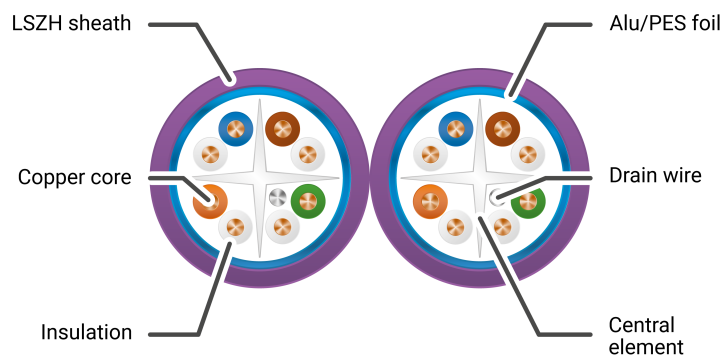
FU5108SH5

CAT6A F/UTP 2x4P 510 MHz LSZH Dca
Cable Drum of 500m



DESCRIPTION

The CAT6A F/UTP FU510xSH cable is designed for shielded cabling solutions, both horizontal and vertical. It exceeds cabling standards thanks to its construction and high-quality shielding, ensuring high throughput and low error rates up to 510 MHz. Its shield provides high electromagnetic immunity with coupling attenuation > 65 dB. It is CPR-classified Dca s2 d2 a2.



ADVANTAGES

- Tested up to 510 MHz
- Electrical supply of equipments (camera, hotspot wifi, IP phone ...)



CONSTRUCTION & TECHNICAL PERFORMANCE

Product Type	FU510xSHyyz
Core gauge	AWG23
Assembly type	Pairs
Shielding description	Aluminium polyester tape
Outer Sheath Material	LSZH
Color	Purple RAL 4001
Nom. diameter of the outer sheath (mm)	7
Ground drain presence	No
Shielding type	F/UTP
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)	1,1

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)	65
Delay skew	< 30
Unbalance resistance	< 2
Propagation speed (%)	66
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

ENVIRONMENTAL CHARACTERISTIC

CPR classification	Dca s2, d2, a2
Fire behaviour	IEC 60332-1
Smoke emission	IEC 61034-1 & -2
Gas emission	IEC60754-2
RoHS Compliance	Compliant with the RoHS directive
Component Standard	IEC 61156-5 Cat6A

ADDITIONAL INFORMATION

Product Packaging	Drum of 500m
Weight (Kg)	0.111

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	-3,7	-66,3	-88,2	-63,3	-85,2	-56,0	-86,7	-53,0	-83,7	-23,0	-35,0
10	-5,9	-5,7	-60,3	-83,0	-57,3	-80,0	-48,0	-80,4	-45,0	-77,4	-25,0	-35,0
16	-7,5	-7,2	-57,2	-80,2	-54,2	-77,2	-43,9	-77,9	-40,9	-74,9	-25,0	-37,6
20	-8,4	-8,1	-55,8	-77,9	-52,8	-74,9	-42,0	-74,0	-39,0	-71,0	-25,0	-41,1
31,25	-10,5	-10,2	-52,9	-76,6	-49,9	-73,6	-38,1	-75,4	-35,1	-72,4	-23,6	-39,5
62,5	-15,0	-14,5	-50,9	-70,6	-47,9	-67,6	-32,1	-64,5	-29,1	-61,5	-21,5	-38,6
100	-19,1	-18,4	-48,4	-66,0	-45,4	-63,0	-28,0	-61,7	-25,0	-58,7	-20,1	-35,5
125	-21,5	-21,0	-45,3	-65,0	-42,3	-62,0	-26,1	-60,0	-23,1	-57,0	-19,4	-37,0
155	-24,1	-23,0	-42,4	-64,0	-39,4	-61,0	-24,2	-58,0	-21,2	-55,0	-18,8	-38,0
200	-27,6	-26,2	-40,8	-62,8	-37,8	-59,8	-22,0	-56,7	-19,0	-53,7	-18,0	-38,4
250	-31,1	-29,0	-39,3	-60,0	-36,3	-57,0	-20,0	-53,0	-17,0	-50,0	-17,3	-32,0
300	-34,3	-32,0	-38,1	-59,1	-35,1	-56,1	-18,5	-50,9	-15,5	-47,9	-17,3	-26,6
350	-37,2	-35,0	-37,1	-57,0	-34,1	-54,0	-17,1	-48,0	-14,1	-45,0	-17,3	-25,0
400	-40,1	-37,5	-36,3	-56,6	-33,3	-53,6	-16,0	-47,3	-13,0	-44,3	-17,3	-24,1
450	-42,7	-39,0	-35,5	-56,2	-32,5	-53,2	-14,9	-46,0	-11,9	-43,0	-17,3	-23,0
500	-45,3	-42,1	-34,8	-56,0	-31,8	-53,0	-14,0	-45,0	-11,0	-42,0	-17,3	-22,3
510	N/A	-42,5	N/A	-55,0	N/A	-52,0	N/A	-44,0	N/A	-41,0	N/A	-22,0