

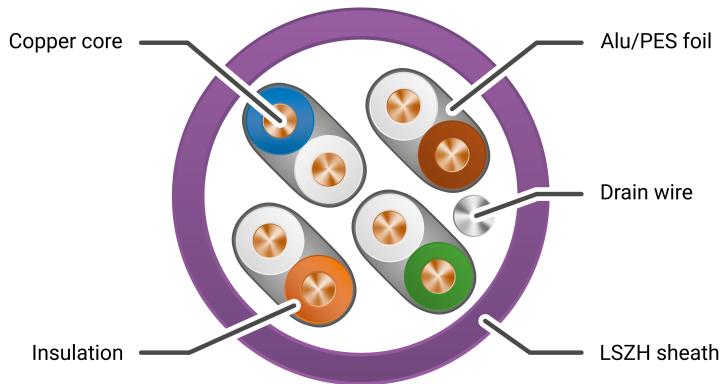
5254SHC5

**CAT6A U/FTP 1x4P 525 MHz LSZH Cca**  
**Cable Drum of 500m**



## DESCRIPTION

Category 6A cable for shielded cabling solutions for horizontal or vertical configurations. Combination of individual shielding and a highly engineered assembly providing high electromagnetic immunity: coupling attenuation > 75 dB. LSZH jacket - cable Cca-rated in accordance with CPR EN 50575.



## ADVANTAGES

- Tested up to 525 MHz
- Available in high CPR level (up to B2ca)



## CONSTRUCTION & TECHNICAL PERFORMANCE

Product Type	525xSHCyyyz
Core gauge	AWG23
Core Composition	AWG23
Assembly type	Pairs
Shielding description	Aluminum polyester tape
Outer Sheath Material	LSZH
Color	Purple RAL 4001
Minimum diameter of the outer sheath (mm)	6.70 x 13.60
Ø SHEATH NOM (mm)	7.10 x 14.40
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
Minimum Insulation Diameter (mm)	1,22
Maximum Insulation Diameter (mm)	1,27
Diameter over Insulation	1,25

## ELECTRICAL CHARACTERISTICS

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

## TRANSMISSION CHARACTERISTICS

Coupling attenuation (dB)	75
Transmission Performance	<a href="https://adaltra.cloud.akeneo.com/api/rest/v1/media-files/0/5/4/a/054ae380eb07fc97af71faf156b04e7c058633c3_525xSHCyyyz_PERFORMANCE_EN.png/download">https://adaltra.cloud.akeneo.com/api/rest/v1/media-files/0/5/4/a/054ae380eb07fc97af71faf156b04e7c058633c3_525xSHCyyyz_PERFORMANCE_EN.png/download</a>
Delay skew	< 30
Unbalance resistance	< 2
Propagation speed (%)	78

## TRANSMISSION CHARACTERISTICS

Transmission Performance	<a href="https://adaltra.cloud.akeneo.com/api/rest/v1/media-files/0/5/4/a/054ae380eb07fc97af71faf156b04e7c058633c3_525xSHCyyyyz_PERFORMANCE_EN.png/download">https://adaltra.cloud.akeneo.com/api/rest/v1/media-files/0/5/4/a/054ae380eb07fc97af71faf156b04e7c058633c3_525xSHCyyyyz_PERFORMANCE_EN.png/download</a>
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

Cable Copper Weight (kg/km)	0.0210
Bending Radius in Fixed Installation	8 x Ø ext
Bending Radius in Mobile Installation	15 x Ø ext

## ENVIRONMENTAL CHARACTERISTIC

CPR classification	Cca s1, d1, a1
Fire Standard	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

Minimum Cut	0.0000
REF	5254SHC5
Maximum E-commerce Drop	0.0000
SKU Collection Photo	5254shx_hd
Cross-section Diagram Photo	5254SHx_COUPE_EN_HD
Model Cross-section Diagram Photo	5254SHx_COUPE_EN_HD
Pictogram	4p_poe
Model Collection Photo	5254shx_hd
Product Range	Multimedia Connect
Product Packaging	Drum of 500m

## 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