

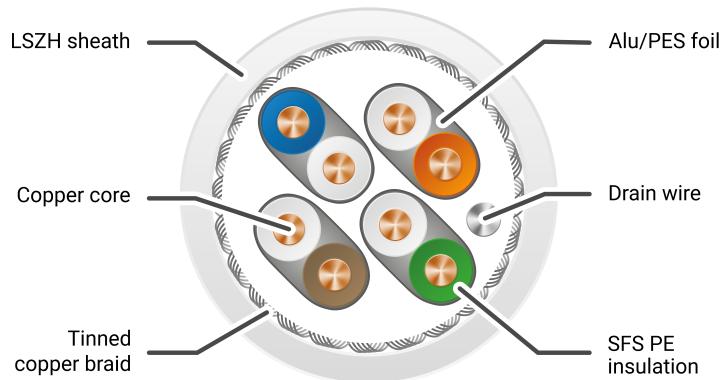
SF5004SHWC5

**CAT6A S/FTP 1x4P white LSZH sheath**  
**Cca Cable - Drum of 500m**



## DESCRIPTION

The SF500XSHWC cable has an individual shield per pair and an overall braided shield, providing excellent EMI immunity. It supports data rates up to 10 Gbit/s in Category 6A.



## ADVANTAGES

- White cable for discrete installation
- High EMC thanks a double shielding S/FTP
- Available in high CPR level : up to B2ca
- Electrical supply of equipments (camera, hotspot wifi, IP phone ...)



## CONSTRUCTION & TECHNICAL PERFORMANCE

Product Type	SF500xSHWCyyyy
Core gauge	AWG23
Core Composition	AWG23
Assembly type	Pairs
Shielding description	Tinned copper braid
Outer Sheath Material	LSZH
Color	White RAL 9010
Minimum diameter of the outer sheath (mm)	6.50 x 13.00
Ø SHEATH NOM (mm)	6.90 x 13.80
Ground drain presence	No
Shielding type	S/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)	1,15
Maximum Insulation Diameter (mm)	1,25
Diameter over Insulation	1,2

## ELECTRICAL CHARACTERISTICS

Loop resistance	137
Minimum insulation resistance	> 5000 MΩ x km
Linear electrical resistance (Ω/Km)	69
Service Voltage (V)	<250Vdc
Mutual Capacity	< 45 pF
Capacity Imbalance	< 1600 pF/km

## TRANSMISSION CHARACTERISTICS

Coupling attenuation (dB)	80
Transmission Performance	<a href="https://adaltra.cloud.akeneo.com/api/rest/v1/media-files/c/2/7/d/c27dca4ba4b0c39b3346e2a60d4308f2a445efd4_SF500xSHWCyyyy_PERFORMANCE_EN.png/download">https://adaltra.cloud.akeneo.com/api/rest/v1/media-files/c/2/7/d/c27dca4ba4b0c39b3346e2a60d4308f2a445efd4_SF500xSHWCyyyy_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/c/2/7/d/c27dca4ba4b0c39b3346e2a60d4308f2a445efd4_SF500xSHWCyyyy_PERFORMANCE_EN.png/download">https://adaltra.cloud.akeneo.com/api/rest/v1/media-files/c/2/7/d/c27dca4ba4b0c39b3346e2a60d4308f2a445efd4_SF500xSHWCyyyy_PERFORMANCE_EN.png/download</a>
Segregation Class	D
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)	0.0280
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	IEC60754-2
RoHS Compliance	Compliant with the RoHS directive
Component Standard	IEC 61156-5 Cat6A

## ADDITIONAL INFORMATION

Minimum Cut	0.0000
REF	SF5004SHWC5
Maximum E-commerce Drop	0.0000
SKU Collection Photo	sf5004shwc5_hd
Cross-section Diagram Photo	SF5004SHWC_COUPE_EN_HD
Model Cross-section Diagram Photo	SF5004SHWC_COUPE_EN_HD
Pictogram	4p_poe
Model Collection Photo	sf5004shwc5_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	-3,5	-66,3	-104,7	-63,3	-101,7	-56,0	-102,0	-53,0	-99,0	-23,0	-26,1
10	-5,9	-5,5	-60,3	-114,9	-57,3	-111,9	-48,0	-103,3	-45,0	-100,3	-25,0	-31,5
16	-7,5	-7,1	-57,2	-117,8	-54,2	-114,8	-43,9	-98,5	-40,9	-95,5	-25,0	-36,1
20	-8,4	-7,9	-55,8	-115,1	-52,8	-112,1	-42,0	-95,4	-39,0	-92,4	-25,0	-33,0
31,25	-10,5	-10,1	-52,9	-113,7	-49,9	-110,7	-38,1	-89,4	-35,1	-86,4	-23,6	-33,6
62,5	-15,0	-14,4	-50,9	-112,7	-47,9	-109,7	-32,1	-79,5	-29,1	-76,5	-21,5	-35,0
100	-19,1	-18,2	-48,4	-110,1	-45,4	-107,1	-28,0	-71,7	-25,0	-68,7	-20,1	-34,6
125	-21,5	-20,0	-45,3	-103,0	-42,3	-100,0	-26,1	-69,0	-23,1	-66,0	-19,4	-34,0
155	-24,1	-23,0	-42,4	-107,0	-39,4	-104,0	-24,2	-67,0	-21,2	-64,0	-18,8	-33,5
200	-27,6	-26,0	-40,8	-100,5	-37,8	-97,5	-22,0	-65,5	-19,0	-62,5	-18,0	-33,0
250	-31,1	-30,0	-39,3	-99,5	-36,3	-96,5	-20,0	-63,0	-17,0	-60,0	-17,3	-32,5
300	-34,3	-32,0	-38,1	-98,9	-35,1	-95,9	-18,5	-60,4	-15,5	-57,4	-17,3	-32,0
350	-37,2	-35,0	-37,1	-98,7	-34,1	-95,7	-17,1	-60,3	-14,1	-57,3	-17,3	-31,0
400	-40,1	-37,2	-36,3	-98,6	-33,3	-95,6	-16,0	-60,3	-13,0	-57,3	-17,3	-29,1
450	-42,7	-39,0	-35,5	-97,0	-32,5	-94,0	-14,9	-60,1	-11,9	-57,1	-17,3	-30,5
500	-45,3	-41,7	-34,8	-95,6	-31,8	-92,6	-14,0	-60,1	-11,0	-57,1	-17,3	-31,4