

SF10004SH5

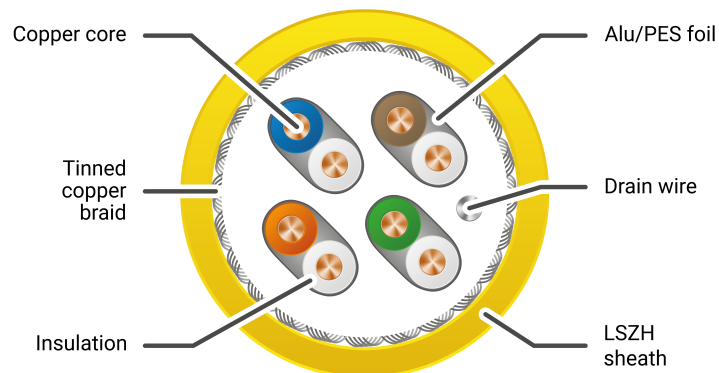
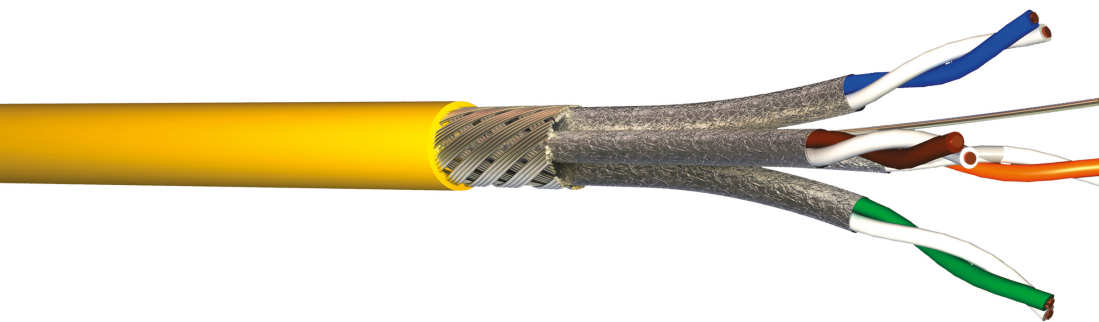
CAT7A S/FTP 1x4P 1000 MHz LSZH Dca
Cable Drum of 500m



DESCRIPTION

SF1000xSH cable is used for cabling infrastructure in shielded solutions for horizontal and vertical configurations. This cable offers an excellent high transmission speed with a low error rate up to high frequencies, 1GHz, thanks to double S/FTP type shielding.

It is a perfect solution for signal transmission at very high frequency due to its bandwidth of 1000 MHz. Cable compliant with CPR Dca s2, d2, a2 in accordance with standard EN50575.



ADVANTAGES

- AWG22 cables for reduced Joule effect in 4PPOE operation
- Very high electromagnetic immunity



CONSTRUCTION & TECHNICAL PERFORMANCE

Product Type	SF1000xSHyyyyyz
Core gauge	AWG23
Assembly type	Pairs
Shielding description	Tinned copper braid
Outer Sheath Material	LSZH
Color	Yellow RAL 1021
Nom. diameter of the outer sheath (mm)	7.4
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)	1,35
Maximum Insulation Diameter (mm)	1,45
Nominal insulation diameter (mm)	1,40

ELECTRICAL CHARACTERISTICS

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

TRANSMISSION CHARACTERISTICS

Coupling attenuation (dB)	80
Delay skew	< 25
Unbalance resistance	< 2
Propagation speed (%)	76
Segregation Class	D
Performance Category	Category 7A
Data Transmission Standard	EN 50173-1: 2011 Classe F, ISO / IEC 11801 Ed3 Class Fa
Characteristic Impedance (Ohms)	100
Conductor/Shield Capacitance	1,6 nF/km
Conductor/Conductor Capacitance	45 nF/km

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MECHANICAL CHARACTERISTICS

Bending Radius in Fixed Installation	8 x Ø ext
Bending Radius in Mobile Installation	15 x Ø ext

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	Conforme à la directive RoHS
Component Standard	IEC 61156-5 Cat7A

ADDITIONAL INFORMATION

Product Packaging	Drum of 500m
Weight (Kg)	0.072

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	-3,7	-3,5	-78,0	-100,2	-75,0	-97,2	-78,0	-96,7	-75,0	-93,7	-20,0	-29,4
10	-5,8	-5,4	-78,0	-111,9	-75,0	-108,9	-75,3	-107,5	-72,3	-104,5	-23,0	-41,0
16	-7,3	-6,9	-78,0	-110,8	-75,0	-107,8	-71,2	-107,0	-68,2	-104,0	-25,0	-36,5
20	-8,2	-7,7	-78,0	-114,0	-75,0	-111,0	-69,3	-108,9	-66,3	-105,9	-25,0	-34,3
31,25	-10,3	-9,8	-78,0	-112,1	-75,0	-109,1	-65,4	-104,4	-62,4	-101,4	-25,0	-38,1
62,5	-14,6	-14,1	-78,0	-108,6	-75,0	-105,6	-59,4	-97,3	-56,4	-94,3	-23,6	-38,3
100	-18,5	-17,9	-78,0	-106,2	-75,0	-103,2	-55,3	-96,5	-52,3	-93,5	-21,5	-30,6
125	-20,8	-20,1	-75,4	-107,6	-72,4	-104,6	-53,4	-93,2	-50,4	-90,2	-20,1	-36,7
155	-23,2	-22,4	-72,5	-103,6	-69,5	-100,6	-51,5	-90,0	-48,5	-87,0	-19,4	-38,4
200	-26,5	-25,6	-70,9	-102,9	-67,9	-99,9	-49,3	-84,7	-46,3	-81,7	-18,8	-33,4
250	-29,7	-28,7	-69,4	-98,3	-66,4	-95,3	-47,3	-86,1	-44,3	-83,1	-18,0	-37,3
300	-32,7	-31,6	-68,2	-102,4	-65,2	-99,4	-45,8	-84,4	-42,8	-81,4	-17,3	-29,9
350	-35,4	-34,3	-67,2	-100,4	-64,2	-97,4	-44,4	-79,9	-41,4	-76,9	-17,3	-31,7
400	-38,0	-36,8	-66,4	-101,9	-63,4	-98,9	-43,3	-82,9	-40,3	-79,9	-17,3	-28,2
450	-40,4	-39,1	-65,6	-101,8	-62,6	-98,8	-42,2	-79,8	-39,2	-76,8	-17,3	-29,2
500	-42,8	-41,5	-64,9	-100,7	-61,9	-97,7	-41,3	-76,8	-38,3	-73,8	-17,3	-33,7
550	-45,0	-43,5	-64,3	-99,6	-61,3	-96,6	-40,5	-73,6	-37,5	-70,6	-17,3	-31,1
600	-47,1	-45,9	-63,7	-93,6	-60,7	-90,6	-39,7	-69,9	-36,7	-66,9	-17,3	-26,1
650	-49,2	-47,8	-63,2	-96,4	-60,2	-93,4	-39,0	-74,7	-36,0	-71,7	-17,3	-25,4
700	-51,1	-50,0	-62,7	-100,1	-59,7	-97,1	-38,4	-70,8	-35,4	-67,8	-17,3	-26,2
750	-53,1	-51,9	-62,3	-96,9	-59,3	-93,9	-37,8	-66,0	-34,8	-63,0	-17,3	-25,8
800	-54,9	-53,7	-61,9	-93,9	-58,9	-90,9	-37,2	-63,7	-34,2	-60,7	-17,3	-25,3
850	-56,7	-55,1	-61,5	-95,1	-58,5	-92,1	-36,7	-58,6	-33,7	-55,6	-17,3	-29,8
900	-58,5	-56,9	-61,1	-92,0	-58,1	-89,0	-36,2	-60,0	-33,2	-57,0	-17,3	-24,5
950	-60,2	-58,6	-60,7	-92,1	-57,7	-89,1	-35,7	-58,8	-32,7	-55,8	-17,3	-23,2
1000	-61,9	-60,2	-60,4	-90,0	-57,4	-87,0	-35,3	-53,1	-32,3	-50,1	-17,3	-23,3