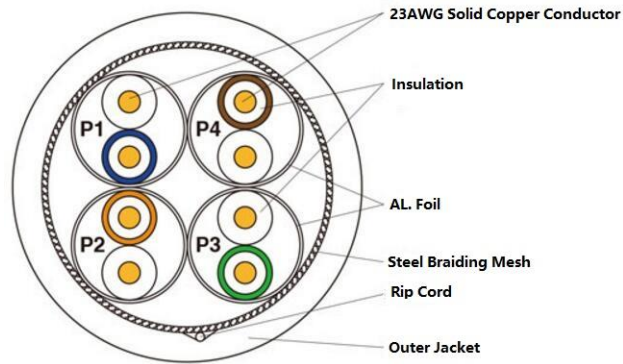


## CAT.6A S/FTP CABLE - CC6ASFBL5




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NEXCONEC<sup>®</sup> Category 6A S/FTP cables are specifically designed to deliver robust standards-based performance ensuring optimum bandwidth for today's high speed network applications. The cable is designed to support horizontal networking applications over distances up to 100 meters.

Each Category 6A S/FTP exceed the minimum specified performance for Category 6A S/FTP cables and support all CLASS EA applications.

### FEATURES

- ✓ Conform to IEC, EIA-TIA performance requirements
- ✓ 23AWG premium grade copper conductor
- ✓ S/FTP cable structure for better shielding in heavy external interference environments
- ✓ Support application with PoE, IEEE 802.3bt PoE++ Type 4
- ✓ Cable jacket available in LSZH, PVC, CM
- ✓ CPR Euro classes certified on demand 

### APPLICATIONS

- ✓ Supports category 6A (Class EA) networks running up to 500MHz applications
- ✓ Ideal for environments where external interferences can disrupt signals
- ✓ Horizontal and backbone in structured cabling installations

## SPECIFICATIONS

Parameters	Value
Electrical Performance	Certified performance in a 4-connector configuration up to 100 meters
Conductor/Insulator	23 AWG solid copper insulated with HPDE
Operating Temperature	-20°C ~ +75°C
PoE Application	IEEE 802.3bt PoE++ Type 4
Compliance	ANSI/TIA-568-C.2, ISO 11801, IEC 60603-7
RoHS Compliance	Compliant

## CABLE SPECIFICATION (CONSTRUCTION)

Parameters	Units	Value
Cable Jacket Type		LSZH/PVC/PE      CPR Cca (s1a,d1,a1)      CPR B2ca (s1a,d1,a1)
Cable OD	mm	7.5mm±0.2mm      7.5mm±0.2mm      7.8mm±0.2mm
Shielding		S/FTP, An aluminized polyester tape applied with a 15% minimum overlap at each pair, the overall 4 pairs are shielded with aluminum-magnesium alloy braiding, 16/4/0.12mm, coverage 40%.
Insulation		Skin-foam-skin PE
Pair Color Codes		Pair 1: White, and Blue Pair 2: White, and Orange Pair 3: White, and Green Pair4: White, and Brown
Sheath Color		Blue (RAL 5012) Grey (RAL 7046) Black (RAL 9005)
Conductor		23AWG solid copper

## CABLE SPECIFICATION (MECHANICAL)

Parameters	Value
Bulk Cable Weight	65 Kg/km
Max. Pull Tension	100N
Min. Bend Radius (installation)	8x OD.
Min. Bend Radius (installed)	4x OD.
Cold Bend	No crack @-20°C x 4hrs
Storage Temp.	-20°C to +70°C
Operation Temp.	-20°C to +60°C
Installation Temp.	0°C to +50°C

## CABLE SPECIFICATION (ELECTRICAL PROPERTIES AT 20°C)

Parameters	Units	Value
Characteristic Impedance	(1-100MHz)	100 ±15Ω
	(100-250MHz)	100 ±18Ω
	(250-500MHz)	100 ±25Ω
DC Resistance	Ω/100m	≤ 9.5Ω/100m max.
Resistance Unbalance	%	≤ 2%
Capacitance Unbalance to Earth	Pf/km	≤ 1600 pF/km
Delay Skew	ns/100m	≤ 25ns/100m
Nominal Velocity of Propagation	%	70%
Propagation Delay (Nominal)	ns/100m	535ns/100m at 500MHz
Test Voltage (d.c. for 1 minute) Conductor /Conductor	VDC	1000V
Insulation Resistance (500V d.c)	MΩ	≥ 500MΩ/KM

**TRANSMISSION LINE PERFORMANCE AT 20°C**

Freq. MHz	RL ≥dB	ATT ≤dB	NEXT ≥dB	PHASE DELAY ≤ns	PSNEXT ≥dB	ELFEXT ≥dB	PSELFEXT ≥dB
1	20	2	74.5	570	72.3	68	65
4	23	3.7	65.3	552	63.3	56	53
10	25	5.9	59.3	545	57.3	48	45
20	25	8.3	54.8	541.2	52.8	42	39
62.5	21.5	14.9	47.4	538.5	45.4	32.1	29.1
100	20	19	44.3	537.6	42.3	28	25
250	17.3	31	38.2	536.1	36.5	20	17
500	15.2	45.4	33.7	535.1	31.8	14	11
600*	17.3	50.1	60.7	535.5	57.7	38.4	35.4
800*	17.3	58.92	58.9	535.3	55.9	35.9	32.9

\* Performance for frequencies beyond TIA and ISO requirements are for information only.

**ORDER INFORMATION**

CC	1	2	3	4	5
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CC	1	CABLE CATEGORY	2	CABLE STRUCTURE	3	JACKET COLOR	4	JACKET MATERIAL	5	PACKING
6A	CAT 6A	SF	S/FTP	BL	BLUE	L	LSZH	5	500MTR/REEL	
				GY	GREY	LC	LSZH CPR CCA			
				WH	WHITE	LB	LSZH CPR B2CA			
				BK	BLACK	C	PVC CM			
				GR	GREEN	P	PVC			
				PR	PURPLE	E	PE			
				RD	RED					