CAT.7 S/FTP CABLE - CC7SFBLL5

23AWG Solid Copper Conductor

Insulation

AL. Foil

Steel Braiding Mesh

Rip Cord

Outer Jacket
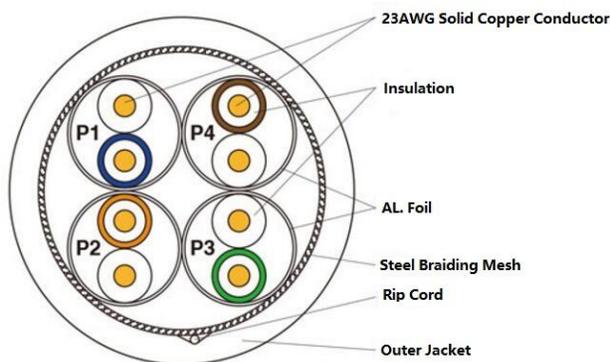
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NEXCONEC® Category 7 S/FTP cables are specifically designed to deliver robust standards based performance ensuring optimum bandwidth for today's high-speed network applications. The cable is designed to support horizontal networking applications over distances up to 100 meters.

Each Category 7 S/FTP exceed the minimum specified performance for Category 7 S/FTP cables and support all CLASS F 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, CM, PVC

✓ CPR Euro classes certified on demand

APPLICATIONS

✓ Supports category 7 (Class F) networks running up to 600MHz 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
CPR Reaction to Fire Classification	Cca-s1a,d1,a1

CABLE SPECIFICATION (CONSTRUCTION)

Parameters	Units	Value
Cable OD	mm	8.0mm±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, 64 x 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	68 Kg/km
Max. Pull Tension	100N
Min. Bend Radius (installation)	8x OD.
Min. Bend Radius (installed)	4x OD.
Cold Bend	No crack @-20℃ x 4hrs
Storage Temp.	-20℃ to +70℃
Operation Temp.	-20℃ to +60℃
Installation Temp.	0℃ to +50℃

CABLE SPECIFICATION (ELECTRICAL PROPERTIES AT 20℃)

Parameters	Units	Value
Characteristic Impedance	(1-100MHz) (100-250MHz) (250-500MHz)	100 ±15Ω 100 ±18Ω 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
Max. Operating Voltage	V	80V

TRANSMISSION LINE PERFORMANCE AT 20℃

Freq. MHz	RL ≥dB	ATT ≤dB	NEXT ≥dB	PHASE DELAY ≤ns	PSNEXT ≥dB	ELFEXT ≥dB	PSELFEXT ≥dB
1	20	2	78	570	75	78	75
4	23	3.7	78	552	75	78	72.9
8	24.5	5.2	78	546.7	75	75.9	71
10	25	5.9	78	543	75	74	66.9
16	25	7.4	78	542	75	69.9	65
20	25	8.3	78	541.2	75	68	63
25	24.3	9.3	78	540.4	75	66	61.1
31.3	23.6	10.4	78	538.6	75	64.1	55.2
62.5	21.5	14.9	75.5	537.6	72.5	58.1	51
100	20	19	72.4	566.9	69.4	54	47.3
150	18.9	23.6	69.8	536.5	66.8	50.2	45
200	17.3	27.5	67.9	536.3	64.9	48	43
250	17.3	31	66.4	536.1	63.4	46	41.5
300	17.3	34.2	65.2	535.1	62.2	44.5	35.4
600	17.3	50.1	60.7	535.5	57.7	38.4	32.9
800*	17.3	58.92	58.9	535.3	55.9	35.9	31.5
1000*	13.1	66.93	57.4	535.1	54.4	34	31

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

ORDER INFORMATION

CC	1	2	3	4	5

CC	1	CABLE CATEGORY	2	CABLE STRUCTURE	3	JACKET COLOR	4	JACKET MATERIAL	5	PACKING
	7	CAT 7	SF	S/FTP	BL	BLUE	L	LSZH	5	500MTR/REEL
					GY	GREY	LC	LSZH CPR CCA		
					WH	WHITE	C	PVC CM		
					BK	BLACK	P	PVC		
					GR	GREEN	E	PE		
					PR	PURPLE				
					RD	RED				