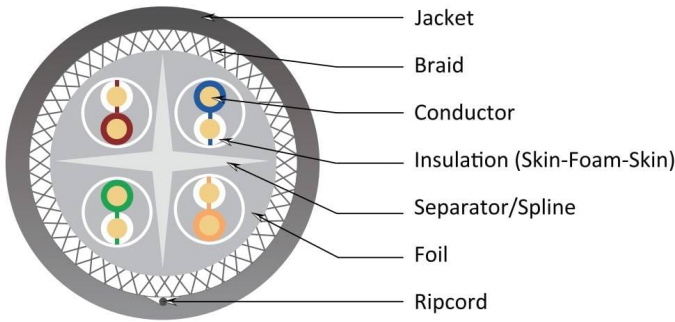


Copper Cabling System

CAT7A S/FTP Cable, Frequency 1–1000 MHz, Class F_A, Shielded



Features

- 10GBASE-T applications up to Class F_A (1000MHz)
- Individually shielded pairs (S/FTP) plus overall braid for superior EMI/RFI immunity
- Digital and analog voice, video and data signal transmission
- Power over Ethernet (PoE / PoE+ / PoE++) support
- Excellent electrical performance with skin-foam-skin insulation design
- Individually shielded pair and overall braid offer good NEXT and ANEXT performance
- LSZH flame-retardant cables comply with IEC 60332-1-2, IEC 60332-3
- Durable length markings to reduce waste of cables
- Designed in the USA
- Packaging: 305m/Box

Ordering Information

Item #	Description
HEC7ASF3PE	CAT7A S/FTP, PE, Black, 305m/Box
HEC7ASF1CM	CAT7A S/FTP, CM, Blue, 305m/Box
HEC7ASF1PC	CAT7A S/FTP, PVC, Blue, 305m/Box
HEC7ASF5LZ	CAT7A S/FTP, LSZH, Orange, 305m/Box

Standard Compliance

- | | | |
|-------------|-----------------|--------------|
| • IEC 61156 | • ISO/IEC 11801 | • TIA 568C.2 |
| • IEC 60574 | • EN 50399 | • EN 50173-1 |

Technical Specifications

Construction / Dimensions

Type	S/FTP CAT7A 4x2x23AWG
Conductor structure	23 AWG, Solid Bare Copper
Insulation material	Physical Foaming PE (Skin-Foam-Skin)
Insulation color pairs	White/Blue, White/Orange, White/Green, White/Brown
Shielding	Individual foil per pair + overall braid
Jacket material	PVC / LSZH
Jacket diameter	8.1 ± 0.3 mm
Installation and storage temperature	0°C ~ +70°C (32°F ~ 158°F)
Operating temperature range	-20°C ~ +70°C (-4°F ~ 158°F)

Mechanical Characteristics

Tensile strength	110 N
Minimum bend radius	10 times max jacket diameter

Electrical Characteristics

DC resistance of each conductor	< 9.38 Ω/100m
Operating capacitance	≤ 5.6 nF/100m
Unbalanced capacitance	≤ 330 pF/100m
Impedance (Ω)	1~100MHz 100±15% / 100~250MHz 100±22% / 250~500MHz 100±25%
NVP	78%
Propagation delay	≤ 25 ns

Nominal Transmission Characteristics (measured over 100m at 20 ± 2°C)

Freq. (MHz)	RL Min (dB)	IL Max (dB/100m)	DoP Max (ns)	Skew Max (ns)	NEXT Min (dB)	PSNEXT Min (dB)	ELFEXT Min (dB)	PSELFEX T Min (dB)	PSANEXT Min (dB)	PSAACR- F Min (dB)
4	23.0	3.7	552	25	78	75	78	75	67	67
8	24.5	5.2	547	25	78	75	77	74	67	67
16	25.0	7.3	543	25	78	75	71	68	67	67
20	25.0	8.2	542	25	78	75	69	66	67	67
31.25	23.6	10.3	540	25	78	75	65	62	67	39
62.5	21.5	14.6	539	25	78	75	59	56	67	39
100	20.1	18.5	538	25	75	72	55	52	67	39
200	18.0	26.5	537	25	71	68	49	46	67	39
250	17.3	29.7	536	25	69	66	47	44	67	39
500	17.3	42.8	536	25	65	62	41	38	67	39
1000	15.1	61.9	535	25	60	57	35	32	63	39