

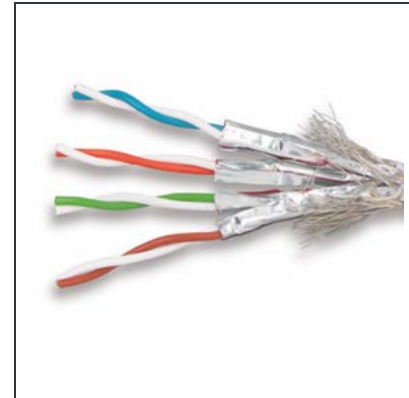
Product Spec Sheet



Part Number: 9T6C14-A5-06R1A

Description: Cable Copper Category 6A A5 4 Pair Solid S/FTP LSOH-1 Blue Reel 305 Meter 23 AWG Class Cca-s1a d1 a1

Siemon's Category 6A S/FTP cable perfectly complements the performance of our Z-MAX® 6A shielded outlets. Siemon cable exceeds all standards requirements for category 6A transmission performance up to 500 MHz. A fully shielded cable with individual foils around each pair coupled with an outer braid provides perfect immunity from outside interferences. In PoE remote power applications, this cable can be installed in environments up to 75°C and will not experience degradation due to heat rise inside the cable bundle. Siemon cable is the ideal way to ensure optimum channel performance and is essential for a complete end-to-end warranted solution. In addition, this cable has been formulated to meet the stringent CPR Class rating of Cca, s1a, d1, a1



Disclaimer: The product images shown are for illustration purposes only and may not be an exact representation of the product

General:

Product Family	Cable - Shielded Cat 6A
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Ordering & Logistics:

Regional Availability	International
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Weights & Dimensions:

Product Unit of Measure	EA
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Physical Specifications:

Conductor Type	Solid
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Cable Length	305 Meter
Cable Construction	S/FTP
# of Pairs	4 Pair
Jacket Color	Blue
Jacket Type	LSOH-1
Double Jacket	No
Cable OD (mm) (nominal)	7.5
Cable OD (in) (nominal)	0.3
Conductor Insulation Material	HDPE, FRPE
Conductor AWG (Nominal)	23 AWG
Conductor OD (mm) (nominal)	0.56
Conductor OD (in) (nominal)	0.02
Rip Cord	No
Isolation Member	No
Mylar Tape	No
Gel Filled	No
Application Environment	Indoor
Overall Shield	Tinned copper braid
Pair Shield Construction	Aluminum polyester foil tape
Packaging	Reel

Mechanical Specifications:

Operating Temperature (°C)	-20 to 75
Operating Temperature (°F)	-4 to 167
Installation Temperature (°C)	0 to 75

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Installation Temperature (°F)	32 to 167
Storage Temperature (°C)	-20 to 75
Storage Temperature (°F)	-4 to 167
Bend Radius (mm) (min)	60
Bend Radius (in) (min)	2.36
Pulling Tension (N) (max)	80
Pulling Tension (lbf) (max)	18

Electrical Specifications:

Category	Category 6A
Performance Level	A5
MHz	Not Applicable
DC Resistance @ 20°C (68°F)	<7.8Ω/100m
DC Resistance Unbalance Within Pairs	≤2%
DC Resistance Unbalance Between Pairs	≤5%
Mutual Capacitance	≤5.6 nF/100m
Capacitance Unbalanced	≤160 pF/100m
NVP	0.74
TCL	≥40-10*log(f/100) dB
Coupling Attenuation	≥55 dB
Delay Skew	≤45 ns/100m
Voltage Rating	300V
Max Operating Voltage	80V

Compliance:

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Industry Standards	ANSI/TIA-568.2-E (Category 6A), IEC 61156-5 (Category 6A), ISO/IEC 11801-1 (Class Ea), IEC 60332-1, IEC 60754-2, IEC 61034-2, EN 50575
Applications Support	10GBASE-T, 2.5/5GBASE-T, 10/100/1000BASE-T, PoE (Type 1,2,3,4) and PoH
Safety & Certifications	Euroclass CPR Cca-s1a, d1, a1
Quality Management System Certification	ISO 9001:2015

Environmental & Sustainability:

RoHS	RoHS - Meets Without Exemption
REACH	REACH - Does Not Contain SVHCs
Conflict Minerals	Conflict Minerals - DRC Conflict Free

Transmission Performance:

TRANSMISSION PERFORMANCE

GUARANTEED WORST CASE

SIEMON TYPICAL

Frequency (MHz)	Insertion Loss (dB)		NEXT (dB)		PS NEXT (dB)		ACR-F (dB)		PS ACR-F (dB)		Return Loss (dB)		ACR-N (dB)		PS ACR-N (dB)		Propagation Delay (ns)	
1.0	2.1	1.7	75.3	99.7	73.3	98.2	73.3	101.6	71.3	99.5	20.0	24.3	73.2	98.0	71.2	96.5	570	448
4.0	3.8	3.2	66.3	102.1	64.3	100.0	61.3	106.8	59.3	104.5	23.0	26.5	62.5	98.9	60.5	96.9	552	444
10.0	5.9	5.0	60.3	98.3	58.3	96.4	53.3	96.5	51.3	94.8	25.0	31.3	54.4	93.4	52.4	91.4	545	440
16.0	7.5	6.3	57.2	97.0	55.2	94.1	49.2	92.7	47.2	90.7	25.0	30.1	49.8	90.7	47.8	87.8	543	439
20.0	8.4	7.1	55.8	95.9	53.8	92.2	47.3	92.0	45.3	91.1	25.0	31.3	47.4	88.9	45.4	85.1	542	438
31.25	10.5	8.9	52.9	91.9	50.9	88.8	43.4	86.6	41.4	84.9	23.7	31.2	42.4	83.0	40.4	79.9	540	437
62.5	15.0	12.8	48.4	86.0	46.4	83.0	37.4	86.9	35.4	84.6	21.5	29.1	33.4	73.3	31.4	70.5	539	436
100.0	19.1	16.2	45.3	80.6	43.3	78.0	33.3	75.9	31.3	74.0	20.1	30.9	26.2	64.9	24.2	62.0	538	436
160.0	24.5	20.6	42.2	76.3	40.2	73.3	29.2	75.4	27.2	73.9	18.7	28.3	17.7	56.1	15.7	52.7	537	436
200.0	27.6	23.0	40.8	73.3	38.8	71.7	27.3	73.6	25.3	71.0	18.0	30.8	13.2	50.2	11.2	48.7	537	436
250.0	31.1	25.8	39.3	75.3	37.3	72.3	25.3	70.0	23.3	66.1	17.3	26.9	8.3	50.1	6.3	46.9	536	435
300.0	34.3	28.4	38.1	75.7	36.1	73.6	23.8	63.8	21.8	63.6	17.3	27.2	3.9	47.2	1.9	45.5	536	435
400.0	40.1	33.1	36.3	66.9	34.3	65.0	21.3	62.7	19.3	60.3	17.3	29.0	-3.8	33.8	-5.8	31.9	536	435
500.0	45.3	37.2	34.8	69.1	32.8	67.3	19.3	62.1	17.3	59.6	17.3	24.6	-10.4	31.9	-12.4	30.1	536	435
550.0*	-	39.2	-	56.1	-	55.0	-	52.2	-	50.9	-	25.0	-	16.9	-	15.8	-	435
625.0*	-	41.9	-	61.4	-	59.6	-	53.9	-	52.0	-	24.0	-	19.7	-	18.8	-	435
750.0*	-	46.8	-	55.2	-	53.0	-	53.8	-	51.0	-	16.9	-	8.7	-	6.4	-	435

*Values above 500 MHz are for information only.

All performance based on 100 meters (328 ft.).

Product Spec Sheet



For more details about the product, please [Click Here](#)

Because we continuously improve our products, Siemon reserves the right to change specifications and availability without prior notice.

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