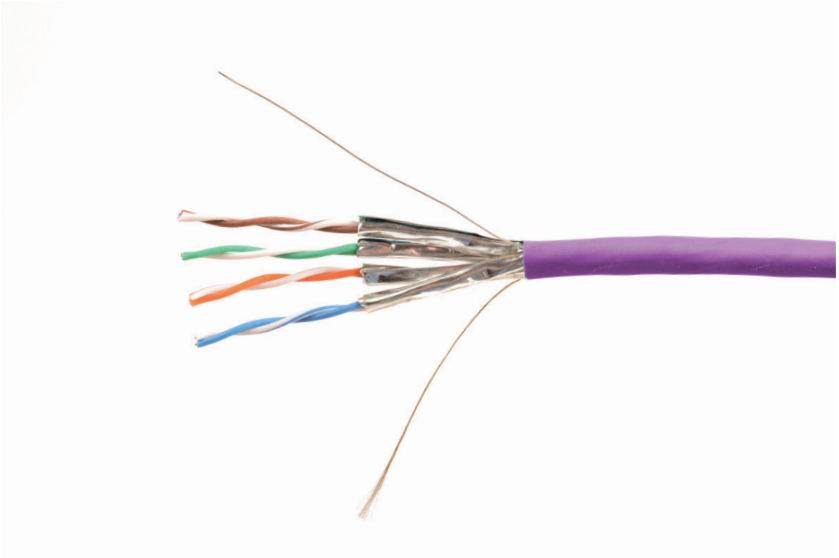
Category 6A U/FTP 4-Pair Cable Class $B2_{ca}$ - EMEA

Category 6A cable provides significant headroom above all ISO/IEC and TIA Category 6A transmission performance specifications. Combine our high performance category 6A connectivity with category 6A cable and the result is a system with superior electrical performance for optimum applications support. In addition this cable has been formulated to meet the stringent CPR Class rating of $B2_{ca}$, s_{1a}, d_1, a_1.

PowerGUARD™

Siemon's **PowerGUARD** technology with a 75°C operating temperature improves heat dissipation for reduced length derating and bundling requirements in remote powering applications, including PoE and power over HDBaseT (POH).



COMPLIANCE

- ISO/IEC 11801-1 (Class EA)
- IEC 61156-5 (Category 6A)
- TIA-568.2-D (Category 6A)
- LSOH: IEC 60332-1, IEC 60754, IEC 61034, and IEC 60332-3-24
- EN 50575 Class $B2_{ca}$, s_{1a}, d_1, a_1
- GB 31247 B1 (d1, t0, a1)

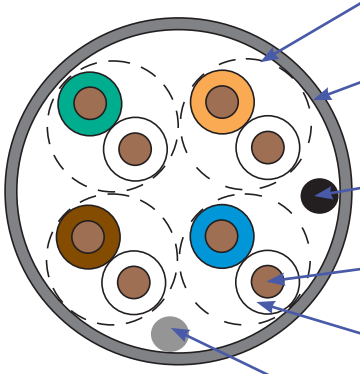
CABLE CONSTRUCTION

- U/FTP
- Nominal jacket OD: 7.6mm (0.30 in.)
- 23 AWG 0.57mm (0.022 in.) solid (non-tinned) copper
- Reverse sequential numbering

APPLICATIONS SUPPORT

- 10GBASE-T
- 1000BASE-T
- 100BASE-T
- 10BASE-T
- IEEE 802.3af (Type 1 PoE)
- IEEE 802.3at (Type 2 PoE)
- IEEE 802.3bt (Type 3 PoE)
- IEEE 802.3bt (Type 4 PoE)

Supports all applications designed for Category 6A or lower cabling



Individual Pair Sheilding
- Aluminum Foil Tape, 100% Coverage

Outer Jacket
- Nominal Cable O.D.: 7.6mm (0.30 in.)

Rip Cord

Conductor
- 23AWG solid bare copper 0.57mm (0.023 in.)

Conductor Insulation
- 1.33mm (0.052 in.) nom.

Drain Wire

Product Information

ELECTRICAL SPECIFICATIONS

DC Resistance	8.0Ω/100m nominal
DC Resistance Unbalance	within pairs ≤ 2% between pairs ≤ 5%
Mutual Capacitance	≤ 5.6 nF/100m
Capacitance Unbalance	<330 pF/100m
NVP	74%
TCL	≥50-10* log(f) dB
Delay Skew	≤45ns

PHYSICAL PROPERTIES

	LSOH
CPR Rating	$B2_{ca}$ s_{1a}, d_1, a_1
Pulling Tension (max	110N (25 lbf)
Bend Radius (min)	25mm (1.0 in.)
Installation Temperature	0 to 50°C (+32 to 122°F)
Storage Temperature	-20 to 75°C (-4 to 167°F)
Operating Temperature	-20 to 75°C (-4 to 167°F)

TRANSMISSION PERFORMANCE

GUARANTEED WORST CASE | SIEMON TYPICAL

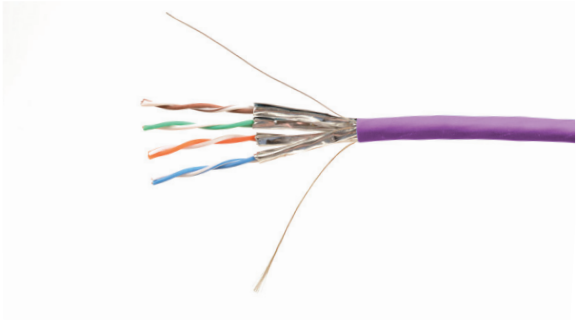
Freqency (MHz)	Insertion Loss (dB)		NEXT (dB)		PS NEXT (dB)		ACR-F (dB)		PS ACR-F (dB)		Return Loss (dB)		ACR-N (dB)		PS ACR-N (dB)		Propagation Delay (ns)	
1.0	2.1	2.0	75.3	105.3	73.3	103.9	73.3	102.5	71.3	101.3	20.0	24.4	73.2	103.3	71.2	102.0	570	448
4.0	3.8	3.6	66.3	107.2	64.3	103.7	61.3	105.2	59.3	102.6	23.0	26.9	62.5	103.6	60.5	100.2	552	445
10.0	5.9	5.5	60.3	100.7	58.3	98.9	53.3	98.9	51.3	96.9	25.0	30.2	54.4	95.2	52.4	93.5	545	442
16.0	7.5	7.0	57.2	95.4	55.2	92.7	49.2	91.8	47.2	90.9	25.0	29.5	49.8	88.4	47.8	85.7	543	440
20.0	8.4	7.9	55.8	96.2	53.8	93.3	47.3	96.7	45.3	93.6	25.0	29.1	47.4	88.5	45.4	85.6	542	440
31.25	10.5	10.0	52.9	90.0	50.9	87.2	43.4	86.5	41.4	85.9	23.7	31.6	42.4	80.3	40.4	77.5	540	439
62.5	15.0	14.3	48.4	85.7	46.4	82.9	37.4	88.2	35.4	84.6	21.5	31.3	33.4	71.8	31.4	69.0	539	438
100.0	19.1	18.1	45.3	79.1	43.3	76.9	33.3	81.0	31.3	78.5	20.1	31.1	26.2	61.4	24.2	59.1	538	438
160.0	24.5	23.1	42.2	75.8	40.2	73.2	29.2	79.1	27.2	75.1	18.7	30.8	17.7	53.3	15.7	50.6	537	437
200.0	27.6	25.8	40.8	74.5	38.8	71.9	27.3	75.8	25.3	73.3	18.0	27.8	13.2	49.4	11.2	46.7	537	437
250.0	31.1	28.9	39.3	74.9	37.3	72.3	25.3	70.1	23.3	68.8	17.3	27.2	8.3	46.7	6.3	44.0	536	437
300.0	34.3	31.7	38.1	72.7	36.1	70.0	23.8	59.3	21.8	58.6	17.3	25.2	3.9	41.7	1.9	38.7	536	437
400.0	40.1	36.9	36.3	68.4	34.3	66.0	21.3	60.0	19.3	56.9	17.3	23.4	-3.8	32.1	-5.8	29.7	536	437
500.0	45.3	41.5	34.8	65.8	32.8	63.4	19.3	61.6	17.3	59.6	17.3	21.2	-10.4	25.0	-12.4	22.7	536	437
550.0*	-	44.0	-	61.8	-	58.8	-	54.4	-	51.2	-	18.6	-	18.7	-	15.6	-	435
625.0*	-	47.0	-	59.9	-	57.6	-	51.5	-	50.6	-	19.0	-	14.0	-	11.7	-	435
750.0*	-	52.0	-	58.0	-	55.6	-	50.2	-	47.8	-	18.6	-	7.7	-	5.2	-	435

**Values above 500 MHz are for information only.*

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

Ordering Information

Part Number	Description
9D6B24-A5-08R1A.....	LSOH, violet jacket, Class $B2_{ca}$, 305m (1000 ft.) Reel



Other cable lengths also available: Add "-5CR" for 500m (1640 ft.) reel, "-1KR" for 1000m (3280 ft.) reel.
Other colors also available with applicable MOQ's.

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

North America
P: (1) 860 945 4200

Mexico
P: (521) 556 387 7708/09/10

Latin America
P: (571) 657 1950/51/52

Europe
P: (44) 0 1932 571771

China
P: (86) 215385 0303

India, Middle East & Africa
P: (971) 4 3689743

Asia Pacific
P: (61) 2 8977 7500

Siemon OEM Technologies
P: (1) 860 945 4213
www.siemon.com/OEM