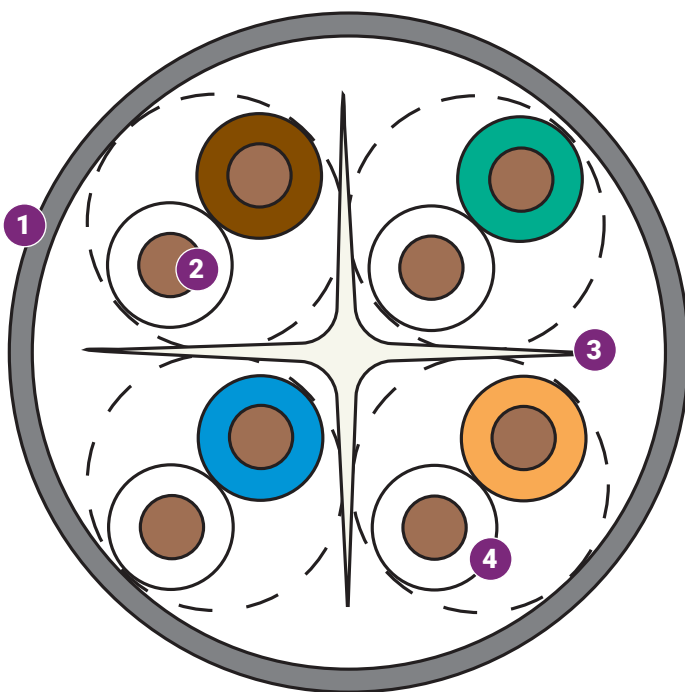


Solution 6® UTP 4-Pair E2 Cable – 23 AWG

Regional Availability – International



Solution 6 cable provides headroom above all ISO/IEC and ANSI/TIA Category 6/Class E transmission performance specifications. Combine our high performance category 6 connectivity with Solution 6 cable and the result is a system with superior electrical performance for optimum applications support.



1. LSOH Rated Cable Jacket

Nominal O.D. = 5.9mm (0.232 in.)

2. Conductor

23AWG solid bare copper 0.57mm (0.022 in.)

3. Cross Pair Separator

Cross shaped pair separator isolates pairs for optimal internal transmission performance.

4. Conductor Insulation

0.98mm (0.039 in.)



Cable Construction

- UTP, 4-Pair, 23 AWG
- LSOH rated cable jacket
- Center isolation member maintains pair geometry for optimal NEXT performance
- Product sold in reel-in-box packaging

Standards Compliance

- ISO/IEC 11801-1 Ed 1.0 (Class E)
- IEC 61156-5:2009 (Category 6)
- ANSI/TIA-568.2-D
- LSOH: IEC 60332-1, IEC 60754, IEC 61034
- EN 50575 Class Eca
- IEEE 802.3af (Type 1 PoE)
- IEEE 802.3at (Type 2 PoE)
- IEEE 802.3bt (Type 3 PoE)
- IEEE 802.3bt (Type 4 PoE)
- Power over HDBaseT (PoH)

Product Information

ELECTRICAL SPECIFICATIONS

DC RESISTANCE	≤9.38Ω/100m
DC RESISTANCE UNBALANCE	≤5%
MUTUAL COMPACITANCE	≤5.6 nF/100m
CAPACITANCE UNBALANCE	≤160 pF/100m
NVP	67%
DELAY SKEW	≤45ns

PHYSICAL PROPERTIES LSOH

PULLING TENSION (MAX)	100N (22.5 lbf)
BEND RADIUS (MIN)	48mm (1.89in.)
INSTALLATION	0 to 60°C (+32 to 140°F)
STORAGE TEMPERATURE	-20 to 60°C (-4 to 140°F)
OPERATING TEMPERATURE	-20 to 75°C (-4 to 167°F)

TRANSMISSION PERFORMANCE

Siemon 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	1.8	75.3	97.7	72.3	96.4	68.0	88.2	65.0	87.2	20.0	26.4	73.2	95.9	70.2	94.7	570	481
4.0	3.8	3.5	66.3	89.0	63.3	86.4	56.0	77.0	53.0	75.6	23.0	34.5	62.4	85.5	59.4	83.1	552	476
10.0	6.0	5.5	60.3	82.0	57.3	79.8	48.0	68.3	45.0	66.8	25.0	34.5	54.3	76.6	51.3	74.4	545	472
16.0	7.6	6.9	57.2	69.6	54.2	68.2	43.9	64.0	40.9	62.2	25.0	34.0	49.6	62.7	46.6	61.3	543	471
20.0	8.5	7.7	55.8	77.2	52.8	74.3	42.0	62.3	39.0	60.2	25.0	33.7	47.3	69.6	44.3	66.7	542	471
31.25	10.7	9.7	52.9	72.9	49.9	70.2	38.1	60.4	35.1	57.4	23.7	38.9	42.2	63.2	39.2	60.5	540	470
62.5	15.5	13.8	48.4	68.5	45.4	65.0	32.1	59.6	29.1	56.2	21.5	30.1	32.9	54.8	29.9	51.3	539	469
100.0	19.9	17.4	45.3	61.8	42.3	58.9	28.0	48.3	25.0	46.9	20.1	28.7	25.4	44.8	22.4	41.5	538	469
160.0	25.7	22.3	42.2	59.2	39.2	57.2	23.9	47.2	20.9	44.1	18.7	30.6	16.5	37.1	13.5	35.1	537	468
200.0	29.1	24.9	40.8	57.1	37.8	53.8	22.0	46.6	19.0	44.5	18.0	27.9	11.6	32.2	8.6	28.9	537	468
250.0	33.0	28.0	39.3	55.1	36.3	51.3	20.0	42.2	17.0	40.4	17.3	27.2	6.3	27.1	3.3	23.5	536	468
300.0*	-	30.8	-	53.8	-	51.0	-	40.7	-	38.3	-	29.1	-	23.0	-	20.4	-	468
400.0*	-	35.8	-	52.4	-	50.3	-	36.1	-	33.7	-	27.1	-	16.6	-	14.7	-	468
500.0*	-	40.3	-	47.3	-	45.4	-	34.8	-	34.0	-	26.0	-	7.3	-	5.3	-	468

All performance based on 100 meters (328 ft.). *Values above 250 MHz are informational only.

Ordering Information

Part Number	Description
9C6L4-E2-08ARBA	Cat 6 UTP, E2, 23 AWG, violet, 305 meter, reel-in-box

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

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