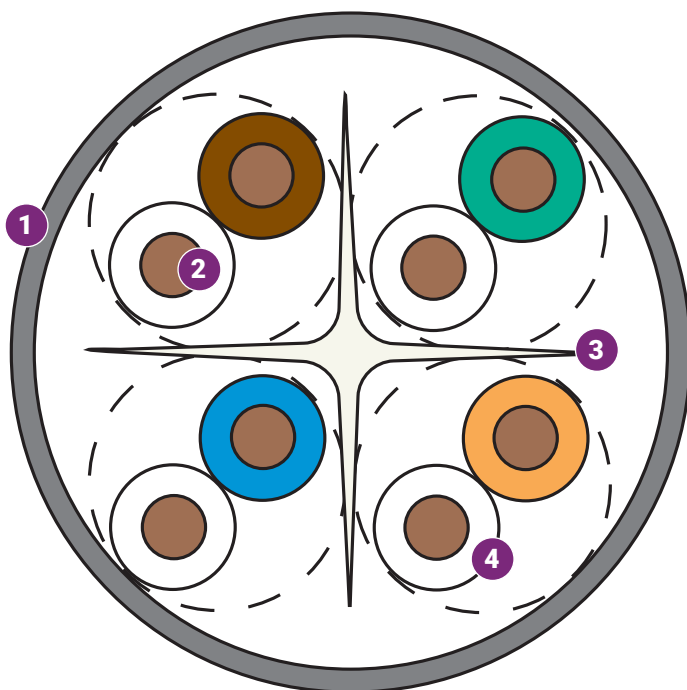


Solution 6® UTP 4-Pair E2 Cable – 23 AWG

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. LS0H & CM 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

1.0mm (0.039 in.)



Cable Construction

- UTP, 4-Pair, 23 AWG
- LS0H and CM rated cable jacket options
- 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-E
- LS0H: IEC 60332-1, IEC 60754, IEC 61034
- CM: IEC 60332-1
- LS0H: EN50575 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)



Data | Power | Reach | Delivered

Product Information

ELECTRICAL SPECIFICATIONS

DC RESISTANCE	≤9.38Ω/100m
DC RESISTANCE UNBALANCE	≤5%
MUTUAL CAPACITANCE	≤5.6 nF/100m
CAPACITANCE UNBALANCE	≤160 pF/100m
NVP	LS0H: 67%, CM: 69%
DELAY SKEW	≤45ns

PHYSICAL PROPERTIES

PULLING TENSION (MAX)	100N (22.5 lbf)
BEND RADIUS (MIN)	48mm (1.89in.)
INSTALLATION	LS0H: 0 to 60°C (+32 to 140°F), CM: 0 to 50°C (+32 to 122°F)
STORAGE TEMPERATURE	LS0H: -20 to 60°C (-4 to 140°F), CM: 0 to 50°C (+32 to 122°F)
OPERATING TEMPERATURE	LS0H & CM: -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	Category 6 UTP, E2, LS0H, 23 AWG, Violet, 305 meter, Reel-in-box
9C6M4-E2-04ARBA	Category 6 UTP, E2, CM, 23 AWG, Grey, 305 meter, Reel-in-box



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