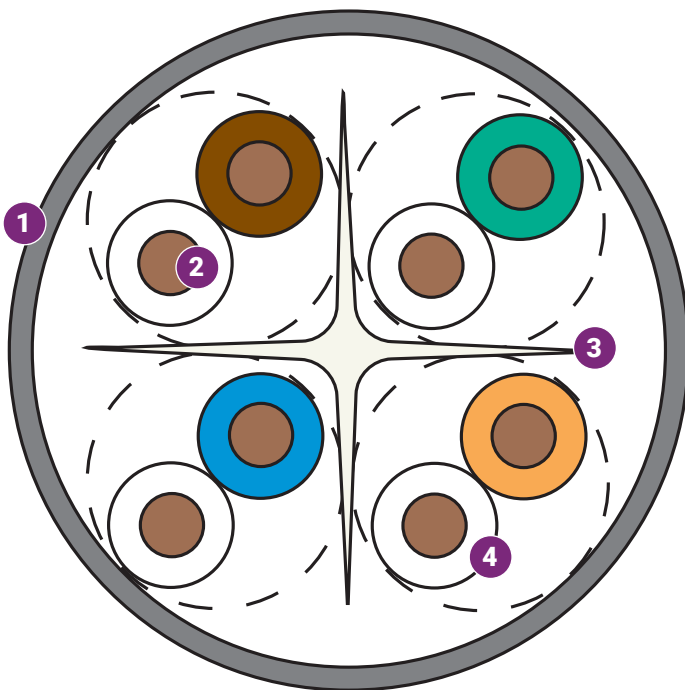


System 6 UTP 4-Pair E3 Cable

Regional Availability – India, Middle East, Africa



System 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 System 6 cable and the result is a system with superior electrical performance for optimum applications support.



1. LSOH Rated Cable Jacket

Nominal O.D. = 6.0mm (0.236 in.)

2. Conductor

23AWG solid bare copper 0.55mm (0.021in.)

3. Cross Pair Separator

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

4. Conductor Insulation

0.99mm (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)
- LSOH: IEC 60332-1, IEC 60754, IEC 61034 and EN 50399
- EN 50575 Class Dca-s2-d2-a1
- 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	69%
DELAY SKEW	≤45ns

PHYSICAL PROPERTIES LSOH

PULLING TENSION (MAX)	100N (22.5 lbf)
BEND RADIUS (MIN)	24mm (0.95in.)
INSTALLATION	0 to 50°C (+32 to 122°F)
STORAGE TEMPERATURE	-20 to 60°C (-4 to 140°F)
OPERATING TEMPERATURE	-20 to 70°C (-4 to 158°F)

TRANSMISSION PERFORMANCE

TEST PARAMETER	FREQUENCY (MHz)													
	1.0	4.0	10.0	16.0	20.0	31.25	62.5	100.0	160.0	200.0	250.0	300.0	400.0	500.0
INSERTION LOSS (dB)	2.0	3.7	5.9	7.4	8.3	10.5	15.2	19.6	25.3	28.7	32.5	-	-	-
	1.8	3.5	5.7	7.1	8.0	10.1	14.4	18.4	23.4	26.3	29.5	32.5	37.8	42.5
NEXT (dB)	77.3	68.5	62.4	59.4	57.9	54.9	50.4	47.3	44.3	42.8	41.3	-	-	-
	88.2	80.4	73.7	75.0	70.3	70.6	65.0	62.2	55.8	54.0	52.6	50.4	50.0	45.6
PS NEXT (dB)	75.3	66.5	60.4	57.4	55.9	52.9	48.4	45.3	42.3	40.8	39.3	-	-	-
	86.0	78.8	73.1	74.1	70.1	69.2	63.4	60.2	52.9	52.5	51.0	49.0	49.2	43.0
ACR-F (dB)	75.3	64.9	56.5	52.0	49.6	44.4	35.2	27.7	18.9	14.1	8.8	-	-	-
	79.1	71.4	64.4	61.3	58.8	53.4	49.5	40.1	43.0	41.6	37.7	33.4	37.7	27.4
PS ACR-F (dB)	73.3	62.9	54.5	50.0	47.6	42.4	33.2	25.7	16.9	12.1	6.8	-	-	-
	83.4	84.3	77.0	72.1	67.8	64.1	56.1	48.8	42.3	33.6	27.2	28.9	13.9	13.6
RETURN LOSS (dB)	21.0	23.9	26.0	26.0	26.0	24.7	22.5	21.1	19.7	19.0	18.3	-	-	-
	31.9	36.9	34.1	34.8	36.6	33.6	30.9	35.2	34.2	31.9	33.2	28.4	25.9	26.6
ACR-N (dB)	75.3	64.9	56.5	52.0	49.6	44.4	35.2	27.7	18.9	14.1	8.8	-	-	-
	86.5	77.0	68.2	68.0	62.5	60.5	50.6	44.3	32.5	27.9	24.0	18.2	13.3	4.3
PS ACR-N (dB)	73.3	62.9	54.5	50.0	47.6	42.4	33.2	25.7	16.9	12.1	6.8	-	-	-
	84.3	75.3	67.6	67.0	62.1	59.2	49.1	42.0	29.7	26.4	22.4	17.0	11.9	0.9
PROPAGATION DELAY (ns)	50	533	526	523	522	521	519	518	517	517	516	-	-	-
	543	527	521	519	518	516	515	514	513	513	513	512	512	512

Siemon Guaranteed Worst Case
Siemon Typical

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

Ordering Information

Part Number	Description
9C6L4-E3-08-RBH	System 6 UTP, E3, 23 AWG, violet, 305 meter, reel-in-box

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