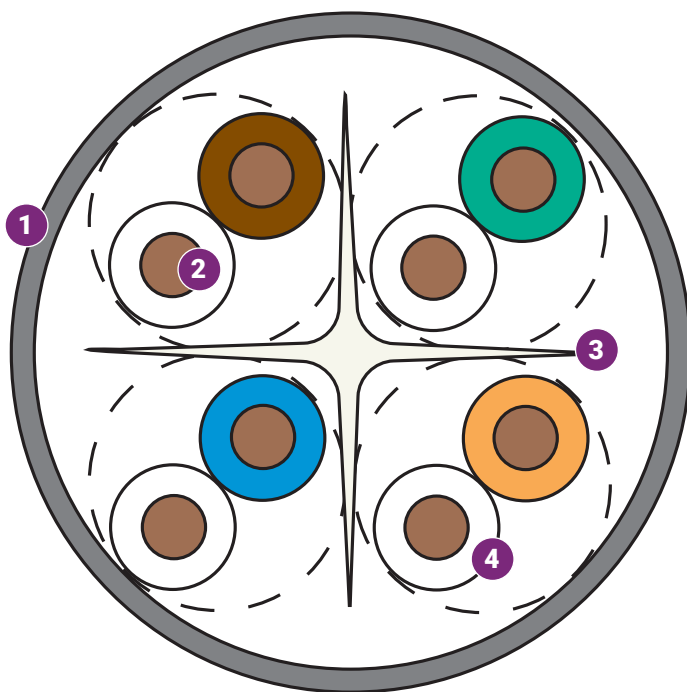


System 6® UTP E3 Cable – Class Cca

Regional Availability – International



System 6 cable provides significant 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. In addition this cable has been formulated to meet the stringent CPR Class rating of Cca, s1a, d0, a1.



1. Outer Jacket

Nominal O.D. = 6.2mm (0.244 in.)

2. Conductor

23AWG solid bare copper 0.56mm (0.022 in.)

3. Cross Pair Separator

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

4. Conductor Insulation

1.0mm nom.



Cable Construction

- UTP
- Nominal jacket O.D.: 6.2mm (0.244 in.)
- 23 AWG 0.56mm (0.022 in.) solid (non-tinned) copper
- Central isolation member
- Reverse sequential numbering

Standards Compliance

- ISO/IEC 11801-1 Ed.1.0 (Class E)
- IEC 61156-5 (Category 6)
- ANSI/TIA-568.2-E (Category 6)
- LSOH: IEC 60332-1, IEC 60754, and IEC 61034
- EN 50575 Class C_{ca}s_{1a}d₀a₁

Application Support

- 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)
- Power over HDBaseT (PoH)



Data | Power | Reach | Delivered

Product Information

ELECTRICAL SPECIFICATIONS

DC RESISTANCE	≤9.38Ω/100m nominal
DC RESISTANCE UNBALANCE	≤5%
MUTUAL CAPACITANCE	≤5.6 nF/100m
CAPACITANCE UNBALANCE	≤330 pF/100m
NVP	69%
TCL	≥50-10*log(f) dB
DELAY SKEW	≤45ns

PHYSICAL PROPERTIES

PULLING TENSION (MAX)	100N (22.4 lbf)
BEND RADIUS (MIN)	49.6mm (1.95in.)
INSTALLATION	0 to 60°C (32 to 140°F)
STORAGE TEMPERATURE	-15 to 60°C (-5 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	2.0	1.6	77.3	91.7	75.3	91.1	70.8	83.2	68.8	81.3	21.0	27.2	75.3	90.1	73.3	89.5	550	494
4.0	3.7	3.4	68.3	82.3	66.3	81.1	58.8	71.7	56.8	69.1	24.0	32.8	64.5	79.0	62.5	77.7	532	489
10.0	5.9	5.5	62.3	76.0	60.3	75.1	50.8	63.3	48.8	60.7	26.0	35.5	56.4	70.4	54.4	69.6	525	485
16.0	7.5	7.0	59.2	72.8	57.2	70.8	46.7	59.0	44.7	57.0	26.0	33.7	51.8	65.8	49.8	63.7	523	484
20.0	8.4	7.9	57.8	67.2	55.8	66.3	44.8	57.4	42.8	55.5	26.0	34.8	49.4	59.3	47.4	58.4	522	484
31.25	10.6	9.9	54.9	67.4	52.9	64.6	40.9	55.0	38.9	52.5	24.7	34.2	44.4	57.5	42.4	54.9	520	483
62.5	15.2	14.3	50.4	65.6	48.4	64.0	34.9	51.5	32.9	48.0	22.5	32.7	35.1	51.3	33.1	50.1	519	482
100.0	19.6	18.2	47.3	64.7	45.3	62.6	30.8	46.0	28.8	44.9	21.1	34.6	27.7	46.7	25.7	44.5	518	482
160.0	25.4	23.4	44.2	57.7	42.2	56.3	26.7	44.5	24.7	43.2	19.7	32.6	18.9	34.4	16.9	33.4	517	481
200.0	28.7	26.3	42.8	58.3	40.8	57.3	24.8	43.6	22.8	39.7	19.0	33.8	14.1	33.0	12.1	31.3	517	481
250.0	32.6	29.6	41.3	50.9	39.3	50.4	22.8	37.4	20.8	36.2	18.3	30.9	8.8	21.5	6.8	21.0	516	481
300.0	-	32.7	-	51.3	-	49.2	-	36.5	-	34.2	-	28.0	-	18.9	-	16.7	-	493
400.0	-	38.3	-	51.8	-	50.2	-	36.1	-	32.2	-	23.8	-	13.5	-	11.8	-	493
500.0	-	43.3	-	46.6	-	45.8	-	30.4	-	29.2	-	21.4	-	3.5	-	2.7	-	493
550.0*	-	46.0	-	41.0	-	40.8	-	25.8	-	24.9	-	20.4	-	-4.7	-	-4.8	-	493
625.0*	-	49.3	-	44.1	-	43.6	-	31.8	-	29.4	-	21.1	-	-4.8	-	-5.3	-	493
750.0*	-	54.6	-	40.3	-	40.1	-	29.4	-	27.5	-	17.8	-	-14.1	-	-14.2	-	493

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

Ordering Information

Part Number	Description
9C6C24-E3-08R1A	LSOH, Violet Jacket, Class Cca, 305m (1000 ft.) Reel

Other cable lengths also available: Replace R1A with "-5CR" for 500m (1640 ft.) reel, "-1KR" for 1000m (3280 ft.) reel. Other colors also available with applicable MOQ's.



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