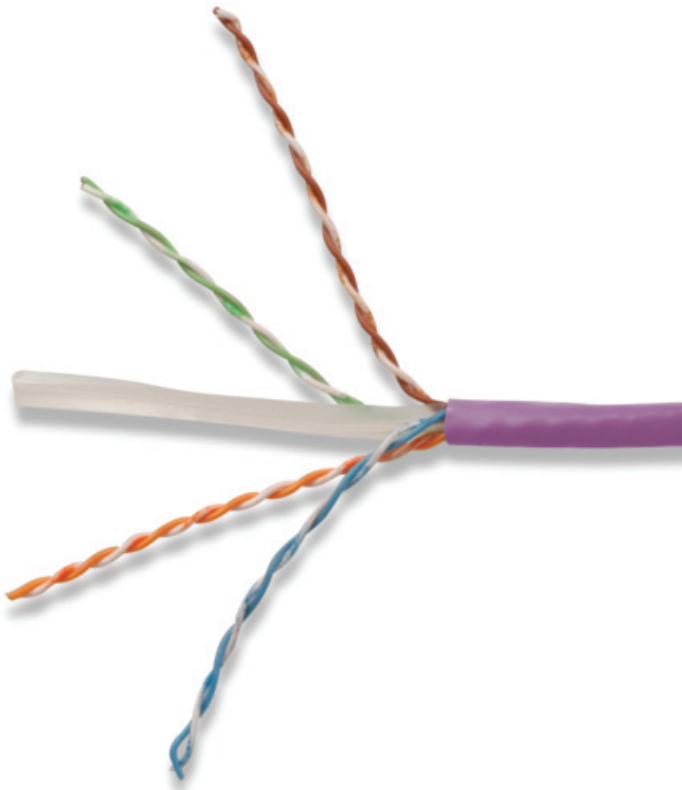


# System 6<sup>®</sup> UTP 4-Pair Cable E3 Class Cca - ERA

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, d1, a1.



## CABLE FEATURES:

- UTP
- Nominal jacket OD: 6.5mm (0.26 in.)
- 23 AWG 0.56mm (0.022 in.) solid (non-tinned) copper
- Central isolation member
- Reverse sequential numbering

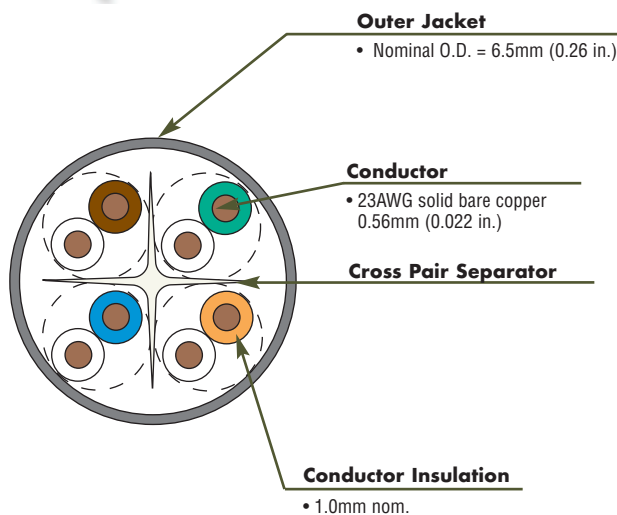
## STANDARDS COMPLIANCE:

- ISO/IEC 11801-1 Ed.1.0 (Class E)
- Nominal jacket OD: 6.5mm (0.26 in.)
- TIA-568.2-D (Category 6)
- LSOH: IEC 60332-1, IEC 60754, and IEC 61034
- EN 50575 Class C<sub>ca</sub>S<sub>1a</sub>d<sub>1</sub>a<sub>1</sub>

## APPLICATIONS 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)

*Supports all applications designed for category 6 or lower cabling*



# Product Information

**Part #** Description  
 9C6C24-E3-08R1A . . . . . LSOH, violet jacket, Class C<sub>ca</sub>, 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.

## ELECTRICAL SPECIFICATIONS

DC Resistance	9.38 Ω/100m nominal
Unbalance Conductor DC Resistance	≤5%
Mutual Capacitance	≤ 5.6 nF/100m
Capacitance Unbalance	<330 pF/100m
NVP	67%
TCL	≥50-10*log(f) dB
Delay Skew	≤ 45ns

## PHYSICAL PROPERTIES

	LSOH
CPR Rating	Cca s1a,d1,a1
Pulling Tension (max)	110N (24.7 lbf)
Bend Radius (min)	26mm
Installation Temperature	0 to 60°C (32 to 140°F)
Storage Temperature	-15 to 75°C (-5 to 167°F)
Operating Temperature	-20 to 75°C (-4 to 167°F)

## TRANSMISSION PERFORMANCE

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	0.0	32.7	0.0	51.3	0.0	49.2	0.0	36.5	0.0	34.2	0.0	28.0	0.0	18.9	0.0	16.7	516	493
400.0	0.0	38.3	0.0	51.8	0.0	50.2	0.0	36.1	0.0	32.2	0.0	23.8	0.0	13.5	0.0	11.8	516	493
500.0	0.0	43.3	0.0	46.6	0.0	45.8	0.0	30.4	0.0	29.2	0.0	21.4	0.0	3.5	0.0	2.7	516	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

\* Values above 250 MHz are informational only.

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