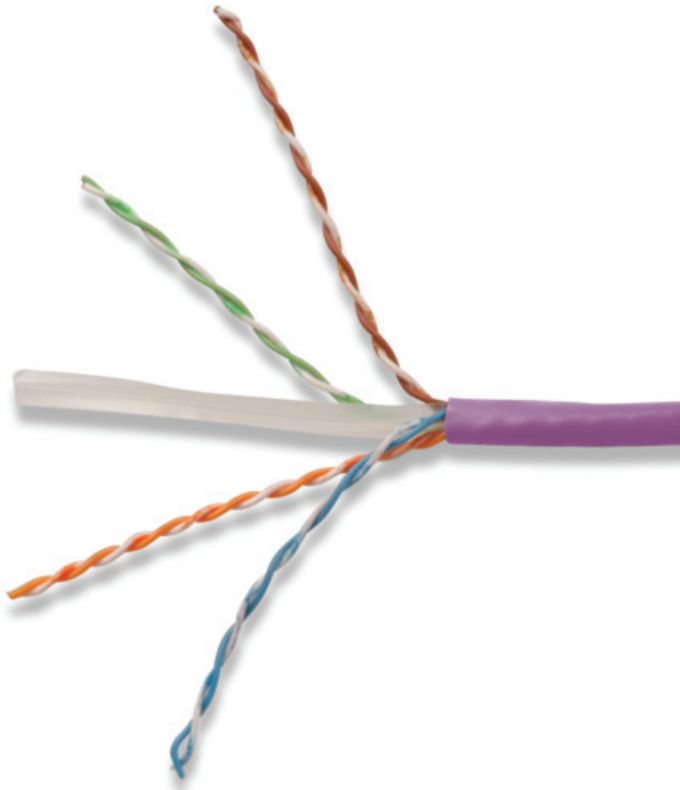


System 6[®] UTP Cable Class Cca - International

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, 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

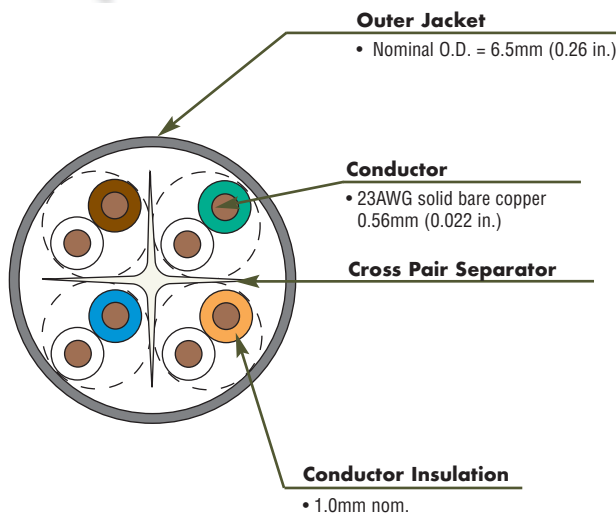
STANDARDS COMPLIANCE:

- 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_{ca}S_{1a}d₁a₁

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_{ca}, 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.

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	-	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

* Values above 250 MHz are informational only.

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