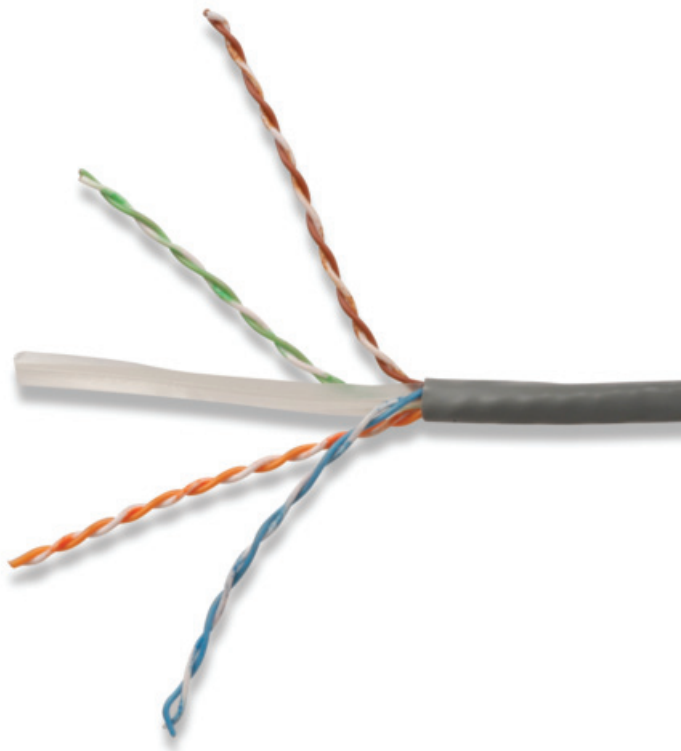


Solution 6[®] UTP 4-Pair Cable E2 - International

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



Outer Jacket

- Nominal O.D. = 5.6mm (0.22 in.)

Conductor

- 24AWG solid bare copper
0.5mm (0.020 in.)

Cross Pair Separator

Conductor Insulation

- 0.99mm - (0.039 in.) nom.

COMPLIANCE

- ISO/IEC 11801-1 Ed 1.0 (Class E)
- IEC 61156-5:2002 (Category 6)
- ANSI/TIA 568.2-D (Category 6)
- PVC: UL CM, IEC 60332-1
- LSOH: IEC 60332-1, 60332-3-22, IEC 60754, and IEC 61034
- EN 50399 Class E_{ca}
- 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)

CABLE CONSTRUCTION

- UTP
- Nominal jacket OD: 5.6mm (0.22 in.)
- 0.52mm (0.02 in.) solid (non-tinned) copper
- Central isolation member
- Reverse sequential numbering

Product Information

Part # Description

9C6M4-E2-RXA..... CM, gray jacket, Class E_{ca}, 305m (1000 ft.) Reelex

9C6L4-E2-RXA..... LSOH, violet jacket, Class E_{ca}, 305m (1000 ft.) Reelex

Other cable lengths also available: Add "-5CR" for 500m (1640 ft.) reel, "-1KR" for 1000m (3280 ft.) reel

ELECTRICAL SPECIFICATIONS

DC Resistance	≤9.50Ω/100m
DC Resistance Unbalance	≤2.5%
Mutual Capacitance	5.6 nF/100m
Capacitance Unbalance	<330 pF/100m
Characteristic Impedance (ohms)	1-100 MHz: 100 ± 15% 200-250 MHz: 100 ± 22%
NVP	65%
TCL	30-10 log(f/100) dB
Delay Skew	45ns

PHYSICAL PROPERTIES

	CM & LSOH
Pulling Tension (max)	80N (18 lbf)
Bend Radius (min)	25mm (0.98 in.)
Installation Temperature	5 to 60°C (41 to 140°F)
Storage Temperature	0 to 60°C (+32 to 140°F)
Operating Temperature	-10 to 60°C (14 to 140°F)

TRANSMISSION PERFORMANCE



GUARANTEED WORST CASE



SIEMON TYPICAL

Frequency μ(MHz)	Insertion Loss (dB)		NEXT (dB)		PS NEXT (dB)		ACR (dB)		PS ACR (dB)		ACR-F (dB)		PS ACR-F (dB)		Return Loss (dB)		Propagation Delay (ns)	
1.0	2.1	1.7	75.3	102.5	72.3	95.4	73.2	100.8	70.2	93.7	68.0	99.6	65.0	92.4	20.0	27.8	570	508
4.0	3.8	3.6	66.3	93.5	63.3	87.6	62.4	89.9	59.4	84.0	56.0	86.9	53.0	79.0	23.0	29.5	552	504
10.0	6.0	5.8	60.3	90.1	57.3	81.2	54.3	84.3	51.3	75.4	48.0	78.3	45.0	70.5	25.0	33.4	545	499
16.0	7.6	7.4	57.2	83.4	54.2	77.1	49.6	76.0	46.6	69.7	43.9	74.6	40.9	67.7	25.0	33.8	543	498
20.0	8.5	8.3	55.8	81.0	52.8	75.5	47.3	72.7	44.3	67.2	42.0	70.3	39.0	63.7	25.0	34.5	542	497
31.25	10.7	10.5	52.9	82.1	49.9	74.1	42.1	71.6	39.1	63.7	38.1	65.1	35.1	59.4	23.6	33.1	540	497
62.5	15.5	14.9	48.4	72.3	45.4	65.4	32.9	57.5	29.9	50.6	32.1	57.5	29.1	52.0	21.5	32.6	539	496
100.0	19.9	19.1	45.3	70.5	42.3	64.6	25.4	51.3	22.4	45.5	28.0	58.8	25.0	51.6	20.1	34.6	538	495
160.0	25.7	24.4	42.2	67.9	39.2	61.0	16.5	43.5	13.5	36.5	23.9	51.4	20.9	42.9	18.7	33.5	537	495
200.0	29.1	27.3	40.8	67.9	37.8	61.7	11.6	40.6	8.6	34.4	22.0	50.8	19.0	43.8	18.0	32.9	537	494
250.0	33.0	31.8	39.3	66.6	36.3	59.0	6.3	34.7	3.3	27.2	20.0	47.6	17.0	40.1	17.3	32.5	536	494

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