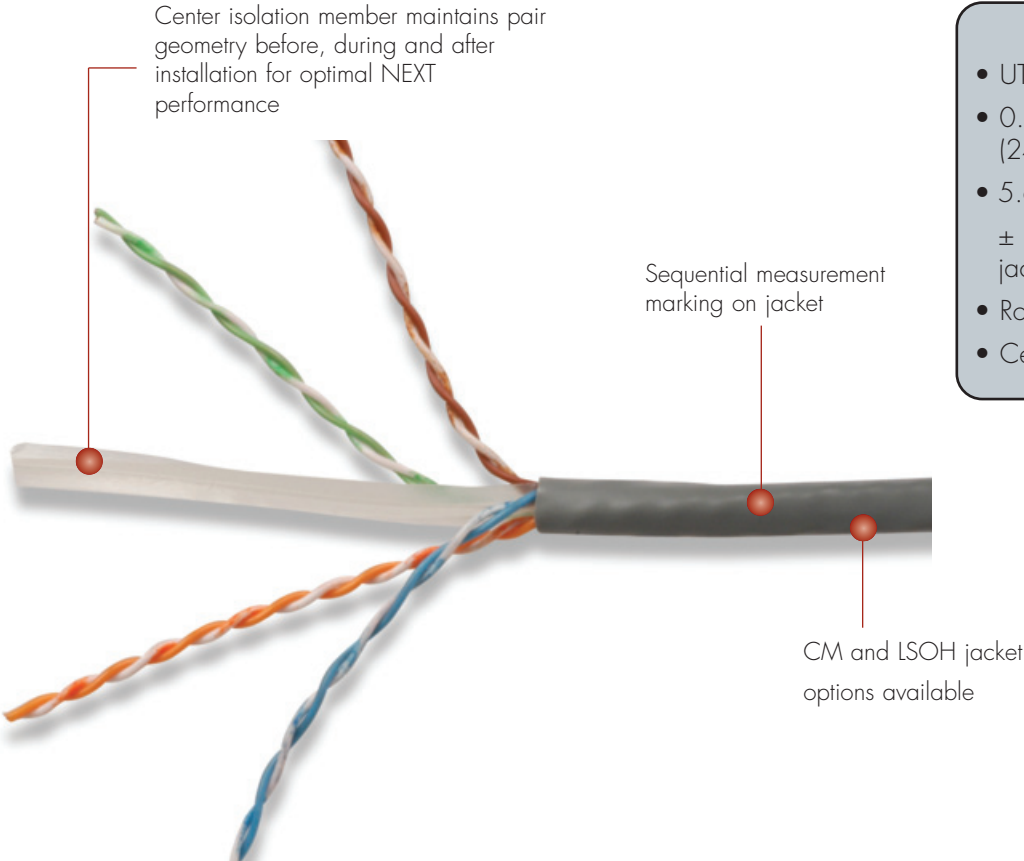


# SOLUTION 6™ UTP CABLE- INTERNATIONAL

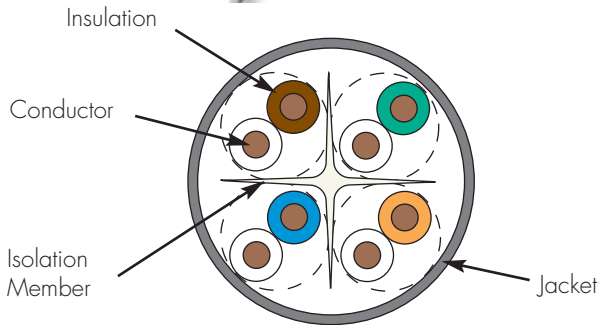
Solution 6 cable meets all ANSI/TIA and ISO/IEC category 6/class E transmission performance specifications. Combine our high performance category 6 connectivity with Solution 6 cable and the result is a system designed for optimum applications support.



CABLE — INTERNATIONAL



- Cable Construction**
- UTP
  - 0.515mm (0.023 in.) (24 AWG) solid bare copper
  - 5.6mm (0.22in) ± 0.2mm (0.008in) nominal jacket diameter
  - Round jacket
  - Center isolation member



- Compliance**
- ISO/IEC 11801:2002 (Category 6)
  - ANSI/TIA-568-C.2
  - IEC 61156-5:2002 (Category 6)
  - PVC: UL CM, IEC 60332-1
  - LSOH: IEC 60332-1, IEC 60754, and IEC 61034

# PRODUCT INFORMATION

## ELECTRICAL SPECIFICATIONS

DC Resistance	≤9.50 4/100m
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 (1.0 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 WORSE CASE



SIEMON TYPICAL

Frequency (MHz)	Insertion Loss (dB)		NEXT (dB)		PSNEXT (dB)		ACR (dB)		PSACR (dB)		ACR-F (dB)		PSACR-F (dB)		Return Loss (dB)		Propagation Delay (ns)	
1	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	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	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	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	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	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	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	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	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.).

### Solution 6™ UTP 4-Pair Solid Cable:

9C6M4-E2 .....PVC Gray Jacket, 305m (1000 ft) Reel-in-Box

9C6L4-E2 .....LSOH, Violet Jacket, 305m (1000 ft) Reel-in-Box

Other cable lengths also available: Add "-5CR" for 500m (1640 ft.) Reel, "-1KR" for 1000m (3,281 ft.) Reel

Because we continuously improve our products, Siemon reserves the right to change specifications and availability without prior notice.

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