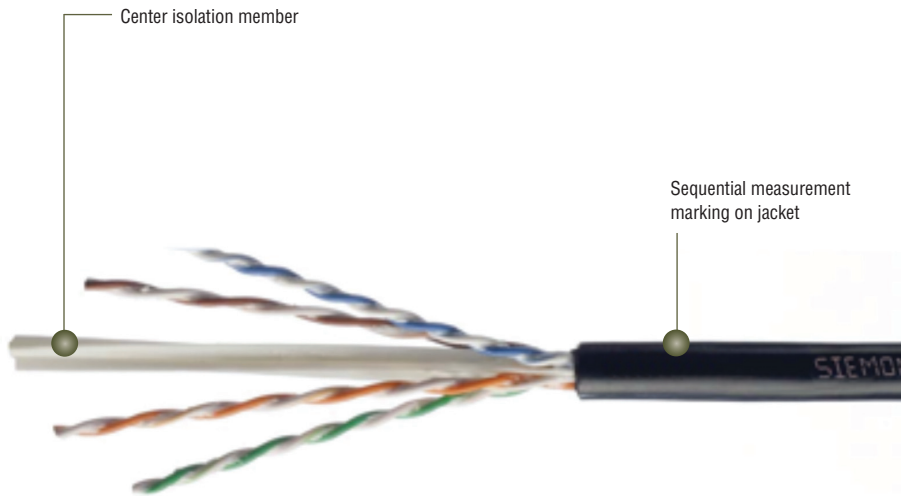


# Solution 6<sup>®</sup> OSP UTP Cable (GLOBAL)

Siemon's Category 6 UTP outside plant (OSP) cable delivers TIA and ISO performance requirements for Category 6/Class E. This robust cable is designed to support the latest applications in outside wet environments, including PoE+ and HDBaseT. Suitable for direct burial, lashed aerial, duct and underground conduit installations, the cable's four pairs are segregated by an innovative separator, filled with a non-conductive water-blocking gel to prevent moisture ingress. The cable's rugged outer jacket is UV-resistant.

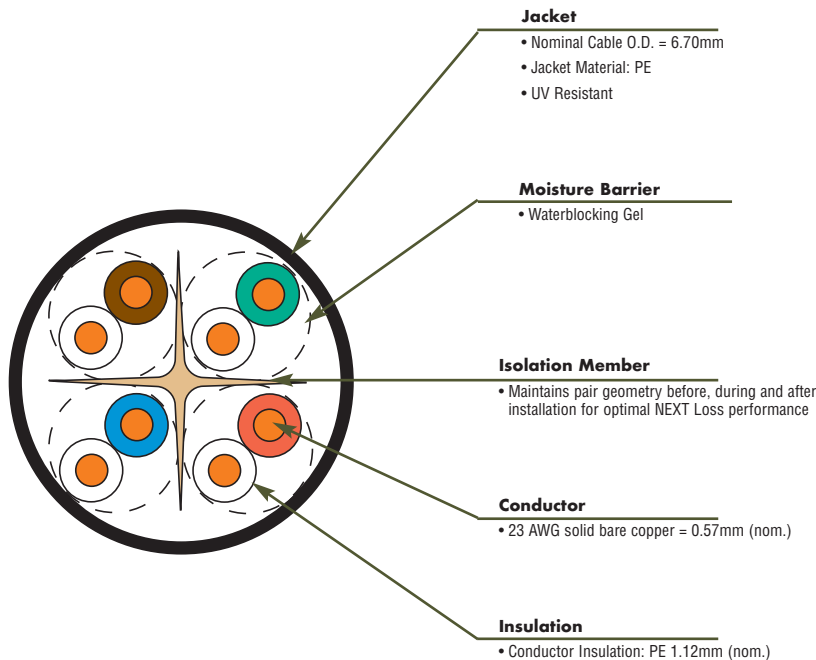


**HIGHLIGHTS**

- UTP, 4-pair
- Polyolefin Jacket, UV Resistant
- Gel filled (Non Conductive)
- Supports all applications designed to operate over category 6 or lower rated systems.
- RoHS
- Approved for use in direct burial, aerial and underground conduit applications

**STANDARDS COMPLIANCE**

- ANSI/TIA - 568.2-D
- IEC 61156-5 Ed 2.0
- ISO/IEC 11801-1 Ed 1.0
- EN 50173-1
- EN-50288-6-1
- IEEE 802.3 af (Type 1 PoE)
- IEEE 802.3 af (Type 2 PoE)
- IEEE 802.3 bt (Type 3 PoE)
- IEEE 802.3 bt (Type 4 PoE)
- Power over HDBaseT (PoH)



# Product Information

## ELECTRICAL SPECIFICATIONS

<b>DC Resistance</b>	<9.38 Ω/100m
<b>DC Resistance Unbalance</b>	5%
<b>Mutual Capacitance</b>	5.6 nF/100m
<b>Capacitance Unbalance</b>	< = 330 pF/100m
<b>NVP</b>	66%
<b>TCL</b>	30-10log(f/100)dB
<b>Delay Skew</b>	45 ns/100m

## PHYSICAL PROPERTIES

<b>Pulling Tension (max)</b>	110N (24.72 lbf)
<b>Bend Radius (min)</b>	26.8mm (1.055 in.)
<b>Installation Temperature</b>	-15 to 50°C (-59 to 122°F)
<b>Storage Temperature</b>	-55 to 70°C (-131 to 158°F)
<b>Operating Temperature</b>	-20 to 60°C (-4 to 140°F)

## TRANSMISSION PERFORMANCE



Guaranteed Worst Case:



Siemon Typical:

Based on data from a randomly selected cable sample.

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	2.1	1.7	75.3	96.4	72.3	95.4	68.0	79.7	65.0	79.5	20.0	24.3	73.2	94.8	70.2	93.8	570	521
4.0	3.8	3.2	66.3	83.3	63.3	81.0	56.0	67.4	53.0	67.3	23.0	26.9	62.4	80.3	59.4	77.9	552	517
10.0	6.0	5.1	60.3	79.1	57.3	77.9	48.0	59.7	45.0	59.6	25.0	29.4	54.3	74.3	51.3	72.9	545	514
16.0	7.6	6.4	57.2	76.4	54.2	75.4	43.9	55.8	40.9	55.6	25.0	31.1	49.6	70.3	46.6	69.1	543	513
20.0	8.5	7.2	55.8	78.9	52.8	75.6	42.0	53.8	39.0	53.7	25.0	30.8	47.3	71.8	44.3	68.7	542	512
31.25	10.7	8.9	52.9	65.1	49.9	64.9	38.1	49.4	35.1	49.3	23.7	33.6	42.2	56.6	39.2	56.1	540	511
62.5	15.5	12.7	48.4	64.5	45.4	63.7	32.1	43.2	29.1	43.1	21.5	34.5	32.9	52.5	29.9	51.1	539	511
100.0	19.9	16.1	45.3	60.3	42.3	59.3	28.0	38.2	25.0	38.0	20.1	34.2	25.4	44.8	22.4	43.4	538	510
160.0	25.7	20.6	42.2	57.6	39.2	56.9	23.9	35.3	20.9	34.7	18.7	29.4	16.5	38.1	13.5	36.6	537	510
200.0	29.1	23.0	40.8	51.3	37.8	50.2	22.0	36.2	19.0	35.3	18.0	29.0	11.6	29.1	8.6	27.9	537	510
250.0	33.0	25.9	39.3	47.2	36.3	46.9	20.0	42.4	17.0	39.0	17.3	26.8	6.3	22.2	3.3	21.3	536	510
300.0*	-	28.5	-	55.7	-	53.6	-	37.4	-	36.5	-	24.0	-	27.6	-	25.4	-	510
400.0*	-	33.4	-	51.4	-	50.7	-	23.5	-	23.5	-	25.2	-	19.3	-	18.3	-	510
500.0*	-	37.6	-	49.5	-	46.7	-	20.9	-	20.9	-	21.9	-	11.9	-	9.1	-	509
550.0*	-	39.6	-	50.2	-	46.4	-	21.2	-	21.1	-	22.4	-	12.2	-	8.4	-	509

## Ordering Information

### CATEGORY 6 OUTSIDE PLANT DIRECT BURIAL CABLE:

9C6O4-E2-01-R1A . . . . . 4-pair 23 AWG, UTP, PE jacket, Black, 305m Reel

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

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