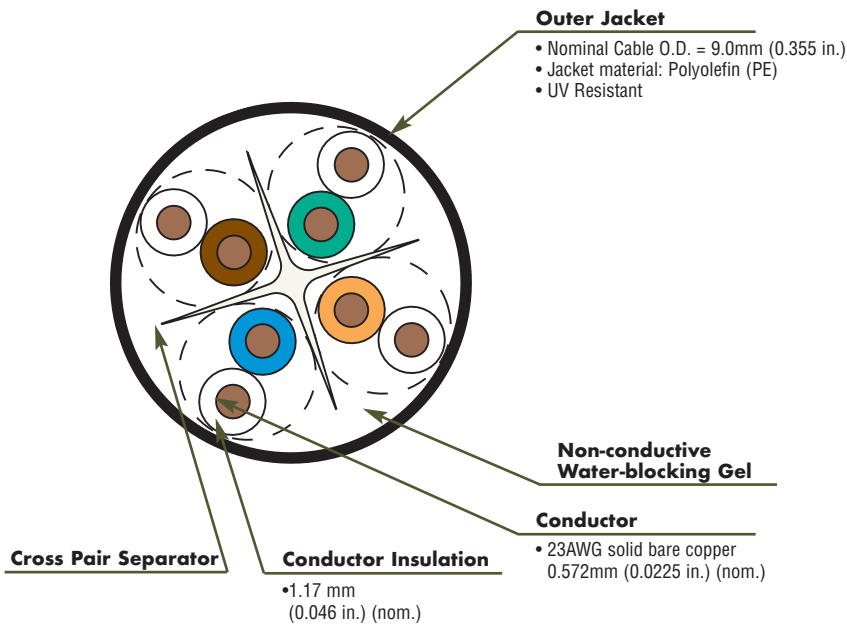
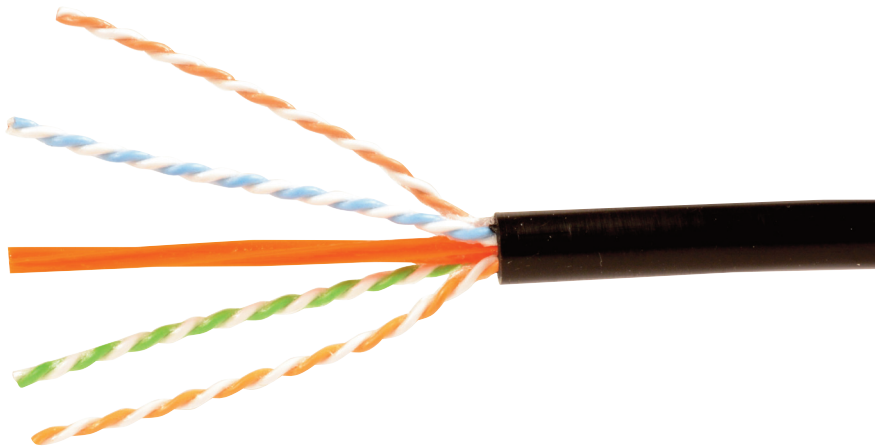


# Category 6A UTP OSP Cable - GLOBAL

Siemon's Category 6A UTP outside plant (OSP) cable delivers TIA and ISO performance requirements for Category 6A/Class EA. This robust cable is designed to support the latest applications in outside wet environments, including 10GBASE-T, 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

- For use in direct burial, lashed aerial, duct and underground conduit applications
- Supports all applications designed to operate over category 6A or lower rated systems.
- Sequential measurement marking on jacket

## CONSTRUCTION

- Water blocking gel
- UV-resistant polyethylene (PE) jacket
- UTP OSP, 4-pair

## STANDARDS

- ANSI/TIA-568-C.2 Category 6A
- ISO/IEC 11801 Class EA
- RoHS
- IEC 61156-5 Category 6A
- ICEA-107-2012
- REACH

## APPLICATIONS SUPPORT

- 10BASE-T
- 100BASE-T
- 1000BASE-T
- 10GBASE-T
- HDBase-T
- IEEE 802.3af (PoE), IEEE 802.3at (PoE+)

# Product Information

## ELECTRICAL SPECIFICATIONS

DC Resistance	<7.7Ω/100m
DC resistance Unbalance	5%
Mutual Capacitance	5.3 nF/100m
Capacitance Unbalance	<330 pF/100m
NVP	64%
TCL	30-10log(f/100)dB
Delay Skew	≤45ns/100m

## PHYSICAL PROPERTIES

Pulling Tension (max)	110N (25 lbf)
Bend Radius (min)	36mm (1.42 in.)
Installation Temperature	-40 to 60°C (-40 to 140°F)
Storage Temperature	-40 to 75°C (-40 to 167°F)
Operating Temperature	-40 to 60°C (-40 to 140°F)

## TRANSMISSION PERFORMANCE

GUARANTEED WORSE 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)	
	Guaranteed	Typical	Guaranteed	Typical	Guaranteed	Typical	Guaranteed	Typical	Guaranteed	Typical	Guaranteed	Typical	Guaranteed	Typical	Guaranteed	Typical	Guaranteed	Typical
1.0	2.1	1.7	75.3	91.2	73.3	91.0	73.3	78.6	71.3	78.4	20.0	31.0	73.2	89.5	71.2	89.3	570	557
4.0	3.8	3.4	66.3	85.4	64.3	83.9	61.3	67.0	59.3	66.9	23.0	28.4	62.5	82.0	60.5	80.5	552	542
10.0	5.9	5.5	60.3	78.4	58.3	75.5	53.3	59.2	51.3	59.1	25.0	33.0	54.4	73.0	52.4	70.2	545	536
16.0	7.5	7.0	57.2	72.2	55.2	72.0	49.2	55.3	47.2	55.1	25.0	32.5	49.8	65.2	47.8	65.0	543	534
20.0	8.4	7.8	55.8	69.9	53.8	69.0	47.3	53.3	45.3	53.1	25.0	31.2	47.4	62.4	45.4	61.5	542	534
31.25	10.5	9.8	52.9	65.2	50.9	64.8	43.4	49.5	41.4	49.3	23.7	33.5	42.4	55.4	40.4	55.2	540	532
62.5	15.0	14.0	48.4	59.6	46.4	59.0	37.4	43.5	35.4	43.3	21.5	31.4	33.4	45.6	31.4	45.0	539	530
100.0	19.1	17.9	45.3	61.8	43.3	60.7	33.3	39.7	31.3	39.5	20.1	31.2	26.2	43.9	24.2	42.8	538	530
160.0	24.5	23.0	42.2	61.9	40.2	59.9	29.2	36.4	27.2	36.1	18.7	31.1	17.7	38.9	15.7	38.0	537	529
200.0	27.6	25.8	40.8	55.5	38.8	54.4	27.3	35.2	25.3	34.9	18.0	32.2	13.2	29.7	11.2	28.6	537	529
250.0	31.1	29.2	39.3	50.0	37.3	49.5	25.3	34.3	23.3	34.0	17.3	30.2	8.3	20.8	6.3	20.3	536	528
300.0	34.3	32.2	38.1	56.9	36.1	54.8	23.8	34.0	21.8	33.6	17.3	29.4	3.9	24.7	1.9	23.0	536	528
400.0	40.1	37.6	36.3	55.1	34.3	54.1	21.3	33.4	19.3	33.0	17.3	24.5	-3.8	17.5	-5.8	16.5	536	528
500.0	45.3	42.2	34.8	54.3	32.8	51.8	19.3	32.3	17.3	30.9	17.3	22.0	-10.4	12.1	-12.4	9.6	536	528
550.0*	-	45.0	-	50.4	-	47.5	-	31.0	-	28.8	-	21.9	-	5.3	-	2.4	-	528
625.0*	-	48.4	-	45.6	-	45.1	-	25.8	-	24.6	-	21.8	-	-2.8	-	-3.2	-	528
750.0*	-	54.3	-	41.6	-	39.7	-	29.8	-	27.8	-	16.6	-	-12.8	-	-14.7	-	528

\* Values above 500 MHz are informational

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

## Ordering Information:

<b>Part #</b>	<b>Description</b>
9C604-A5-01-R1A. . . . .	Category 6A Outside Plant Direct Burial Cable, 4-pair, 23-AWG, UTP, Black, 305m (1000 ft.) Reel

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

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