

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

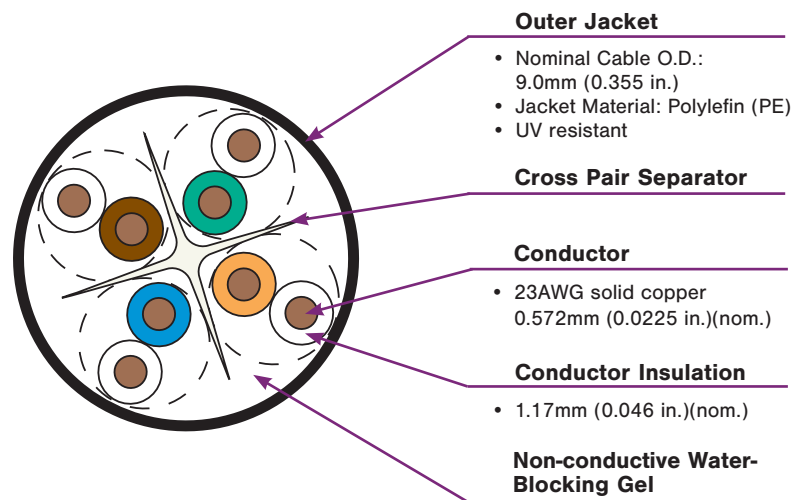
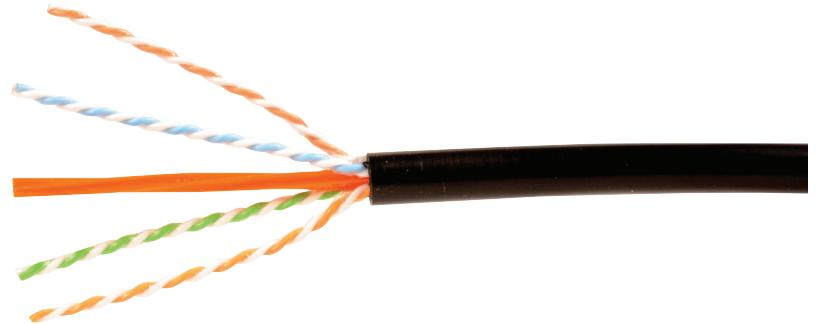
- Water blocking gel
- UV-resistant polyethylene (PE) jacket
- UTP OSP, 4-pair

STANDARDS

- ANSI/TIA-568.2-E
- ISO/IEC 11801-1 Ed 1.0
- 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 (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)



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	30-10 log(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 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	2.1	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

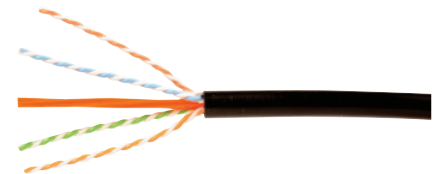
* Values above 500 MHz are for information only.

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

Ordering Information

Part Number Description

9C6O4-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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