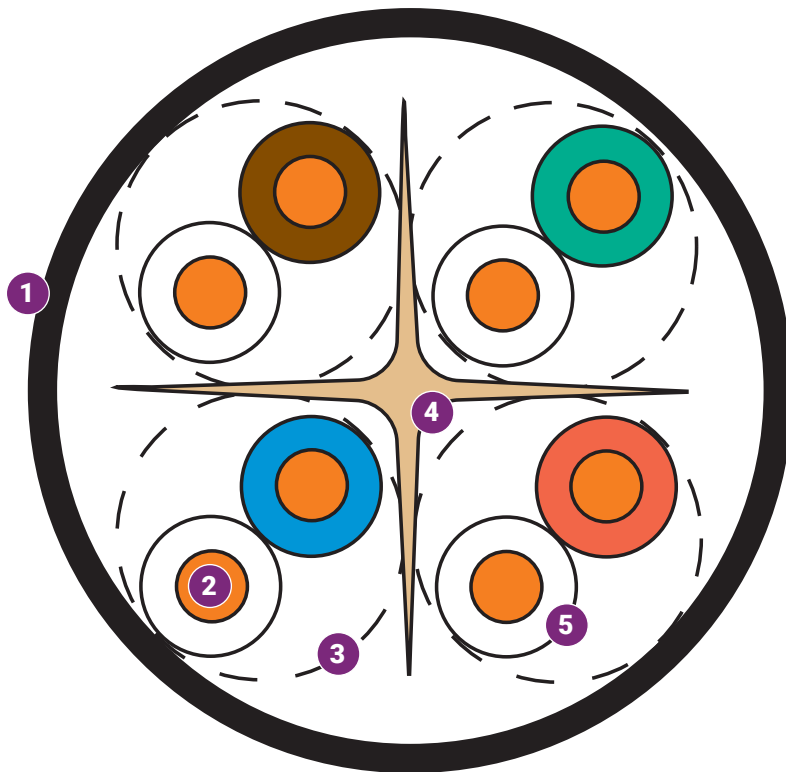


Solution 6® OSP UTP Cable

Regional Availability – North America



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 nonconductive water-blocking gel to prevent moisture ingress. The cable's rugged outer jacket is UV-resistant.



1. Jacket

Nominal O.D. = 6.4mm
UV Resistant

2. Conductor

23 AWG solid bare copper = 0.57mm (nom.)

3. Moisture Barrier

Waterblocking Gel

4. Isolation Member

Maintains pair geometry before, during and after installation for optimal NEXT Loss performance

5. Insulation

Conductor Insulation: PE 1.02mm (nom.)



Cable Construction

- 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-E
- 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)

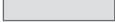

Product Information

ELECTRICAL SPECIFICATIONS

DC RESISTANCE	<9.38Ω/100m
DC RESISTANCE UNBALANCE	≤5%
MUTUAL CAPACITANCE	5.6 nF/100m
CAPACITANCE UNBALANCE	≤330 pF/100m
NVP	65%
TCL	30-10log(f/100)dB
DELAY SKEW	≤45ns/100m

PHYSICAL PROPERTIES

PULLING TENSION (MAX)	100N (24.72 lbf)
BEND RADIUS (MIN)	25.4mm (1.0 in.)
INSTALLATION TEMPERATURE	-40 to 60°C (-40 to 140°F)
STORAGE TEMPERATURE	-40 to 60°C (-40 to 140°F)
OPERATING TEMPERATURE	-40 to 60°C (-40 to 140°F)

 Siemon Guaranteed Worst Case
 Siemon Typical

TRANSMISSION PERFORMANCE

TEST PARAMETER	FREQUENCY (MHz)													
	1.0	4.0	10.0	16.0	20.0	31.25	62.5	100.0	160.0	200.0	250.0	300.0	400.0*	500.0*
INSERTION LOSS (dB)	2.1	3.8	6.0	7.5	8.5	10.7	15.4	19.9	25.7	29.1	33.0	-	-	-
	1.8	3.4	5.5	7.0	7.8	9.9	14.2	18.3	23.4	26.3	29.7	32.7	38.2	43.1
NEXT (dB)	75.3	66.5	60.4	57.4	55.9	52.9	48.4	45.3	42.3	40.8	39.3	-	-	-
	84.0	86.4	79.8	73.1	74.3	70.8	66.6	65.7	63.5	58.4	54.3	57.4	52.7	46.4
PS NEXT (dB)	72.3	63.5	57.4	54.4	52.9	49.9	45.4	42.3	39.3	37.8	36.3	-	-	-
	83.2	83.7	78.1	71.8	71.8	69.4	65.7	64.2	61.2	56.3	53.0	55.3	50.4	45.0
ACR-F (dB)	68.0	56.3	48.1	44.1	42.1	38.2	32.1	28.0	23.9	22.0	20.1	-	-	-
	86.9	78.7	69.6	66.9	64.2	61.0	56.2	51.7	52.3	47.9	45.5	39.1	37.0	30.9
PS ACR-F (dB)	65.0	53.3	45.1	41.1	39.1	35.2	29.1	25.0	20.9	19.0	17.1	-	-	-
	81.0	77.8	70.4	66.7	63.7	60.8	55.4	50.8	48.4	46.7	43.8	38.1	36.3	30.7
RETURN LOSS (dB)	20.0	22.9	25.0	25.0	25.0	23.7	21.5	20.1	18.7	18.0	17.3	-	-	-
	30.6	33.8	33.7	34.7	33.4	35.0	32.2	30.0	36.6	30.6	31.6	26.9	30.0	28.3
ACR-N (dB)	73.2	62.8	54.4	49.9	47.4	42.2	32.9	25.4	16.5	11.7	6.3	-	-	-
	84.1	77.9	70.7	67.2	64.2	61.2	56.4	52.0	51.3	48.1	45.5	39.0	36.7	31.4
PS ACR-N (dB)	70.2	59.8	51.4	46.9	44.4	39.2	29.9	22.4	13.5	8.7	3.3	-	-	-
	86.0	78.6	69.6	66.7	63.8	60.5	55.3	50.6	48.7	46.6	43.9	37.6	36.5	31.2
PROPAGATION DELAY (ns)	570	552	545	543	542	540	539	538	537	537	536	-	-	-
	554	539	533	531	530	529	527	526	525	525	525	524	524	524

All performance based on 100 meters (328 ft.). *Values above 250 MHz are informational only.

Ordering Information

Part Number	Description
9C604-E2-01-R1B	4-pair 23 AWG, UTP, PE jacket, Black, 1000ft Reel, Made in USA



SCAN TO DOWNLOAD SPEC SHEET

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

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