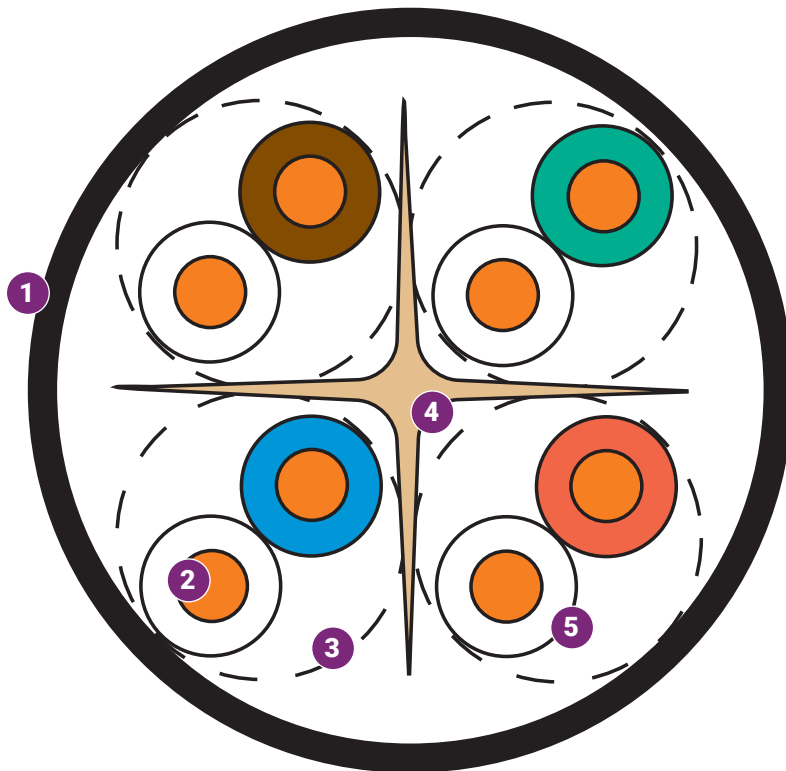


Solution 6® OSP UTP Cable

Regional Availability – 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.



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)



Data | Power | Reach | Delivered

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	-55 to 70°C (-67 to 158°F)
OPERATING TEMPERATURE	-40 to 75°C (-40 to 167°F)

TRANSMISSION PERFORMANCE

Siemon 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	1.8	75.3	97.7	72.3	96.4	68.0	88.2	65.0	87.2	20.0	26.4	73.2	95.9	70.2	94.7	570	481
4.0	3.8	3.5	66.3	89.0	63.3	86.4	56.0	77.0	53.0	75.6	23.0	34.5	62.4	85.5	59.4	83.1	552	476
10.0	6.0	5.5	60.3	82.0	57.3	79.8	48.0	68.3	45.0	66.8	25.0	34.5	54.3	76.6	51.3	74.4	545	472
16.0	7.6	6.9	57.2	69.6	54.2	68.2	43.9	64.0	40.9	62.2	25.0	34.0	49.6	62.7	46.6	61.3	543	471
20.0	8.5	7.7	55.8	77.2	52.8	74.3	42.0	62.3	39.0	60.2	25.0	33.7	47.3	69.6	44.3	66.7	542	471
31.25	10.7	9.7	52.9	72.9	49.9	70.2	38.1	60.4	35.1	57.4	23.7	38.9	42.2	63.2	39.2	60.5	540	470
62.5	15.5	13.8	48.4	68.5	45.4	65.0	32.1	59.6	29.1	56.2	21.5	30.1	32.9	54.8	29.9	51.3	539	469
100.0	19.9	17.4	45.3	61.8	42.3	58.9	28.0	48.3	25.0	46.9	20.1	28.7	25.4	44.8	22.4	41.5	538	469
160.0	25.7	22.3	42.2	59.2	39.2	57.2	23.9	47.2	20.9	44.1	18.7	30.6	16.5	37.1	13.5	35.1	537	468
200.0	29.1	24.9	40.8	57.1	37.8	53.8	22.0	46.6	19.0	44.5	18.0	27.9	11.6	32.2	8.6	28.9	537	468
250.0	33.0	28.0	39.3	55.1	36.3	51.3	20.0	42.2	17.0	40.4	17.3	27.2	6.3	27.1	3.3	23.5	536	468
300.0*	-	30.8	-	53.8	-	51.0	-	40.7	-	38.3	-	29.1	-	23.0	-	20.4	-	468
400.0*	-	35.8	-	52.4	-	50.3	-	36.1	-	33.7	-	27.1	-	16.6	-	14.7	-	468
500.0*	-	40.3	-	47.3	-	45.4	-	34.8	-	34.0	-	26.0	-	7.3	-	5.3	-	468

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

Ordering Information

Category 6 Outside Plant Direct Burial Cable

Part Number	Description
9C604-E2-01-R1A	4-pair 23 AWG, UTP, PE jacket, Black, 305m Reel



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