

Category 6A UTP Indoor/Outdoor Cable – Global

Simon's Category 6A UTP Indoor/Outdoor (I/O) cable delivers TIA and ISO/IEC performance requirements for Category 6A/Class EA. The use of GT (Gap Technology) for a discontinuous shield allows for exceptional alien crosstalk and requires no bonding or grounding for simple, efficient installations. This 600V cable with its industrial PVC jacket provides oil and sunlight resistance along with reliable cold bend performance. These features make this robust cable designed to support the latest applications in the industrial environment for light to medium duty and static industrial applications. Being CMR and CMX rated, this cable transitions easily from indoor to outdoor environments. Ideal for use in both indoor riser/cable tray and outdoor applications such as outdoor security cameras, WAP's, and parking garages where cable is not subject to long term immersion. This cable is not suitable for direct burial applications or slab-on-grade conduit.

CABLE FEATURES

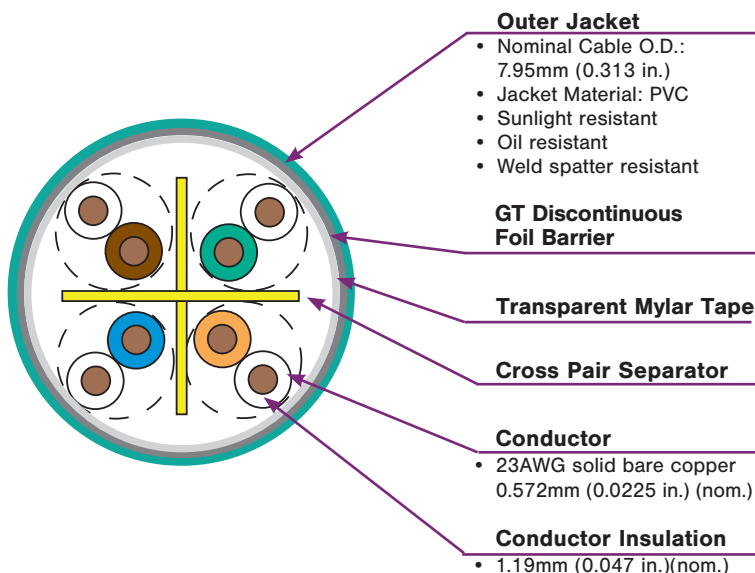
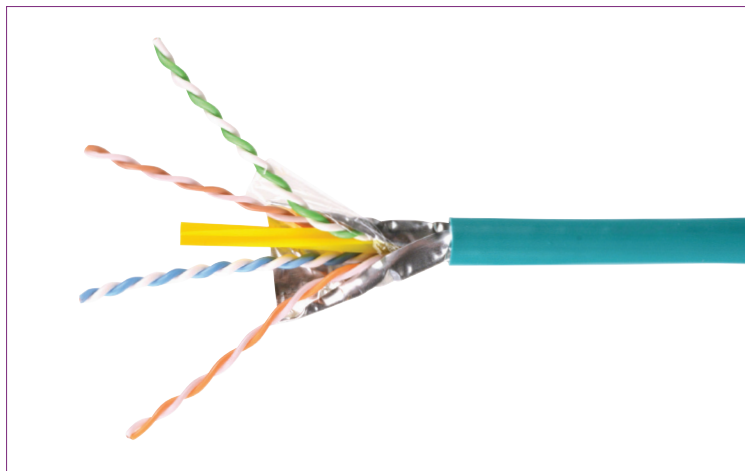
- GT (Gap Technology) UTP
- Jacket Color: Teal
- 600V AWM Design
- Nominal jacket OD: 7.95mm (0.313 in.)
- 23 AWG 0.57mm (0.022 in.) solid bare copper
- Ruggedized PVC Jacket
- Sunlight Resistant
- Oil Resistant
- Weld Spatter Resistant
- 80° C temperature rating

STANDARDS COMPLIANCE

- ISO/IEC 11801-1 (Class Ea)
- ANSI/TIA-568.2-E (Category 6A)
- IEC 61156-5 (Category 6A)
- UL Listed: CMR
- UL444 CMX Outdoor
- UL1581 50.182 Oil Resistant 60° C
- UL444 7.22 Sunlight Resistant 720 hrs
- UL758 600V 80° C
AWM (Appliance Wiring Material) standard for consistency & safety
- UL444 7.10 Cold Bend -40° C
- UL2556 7.10 75 cycles/1.5 lb. load
- RoHS

APPLICATIONS SUPPORT

- 10GBASE-T
- 1000BASE-T
- 100BASE-T
- 10BASE-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)



Data | Power | Reach | Delivered

Product Information

ELECTRICAL SPECIFICATIONS

DC Resistance	<9.38Ω/100m
DC Resistance Unbalance	5%
Mutual Capacitance	5.1 nF/100m
Capacitance Unbalance	<330 pF/100m
NVP	66%
TCL	30-10 log(f/100) dB
Delay Skew	≤45ns/100m

PHYSICAL PROPERTIES

Pulling Tension (max)	110N (25 lbf)
Bend Radius (min)	32mm (1.26 in.)
Installation Temperature	-20 to 80°C (-4 to 176°F)
Storage Temperature	-40 to 80°C (-40 to 176°F)
Operating Temperature	-40 to 80°C (-40 to 176°F)

TRANSMISSION PERFORMANCE



GUARANTEED WORST CASE



SIEMON TYPICAL

Frequency (MHz)	Insertion Loss (dB)		NEXT (dB)		PS NEXT (dB)		ACR-F (dB)		PSACR-F (dB)		Return Loss (dB)		ACR-N (dB)		PSACR-N (dB)		Propagation Delay (ns)	
1.0	2.1	1.9	75.3	82.6	73.3	81.1	73.2	82.2	71.2	83.3	20.0	28.5	73.2	82.2	71.2	80.0	570.0	555.3
4.0	3.9	3.6	66.3	83.2	64.3	81.3	62.4	81.5	60.4	81.7	23.0	28.3	62.4	81.5	60.4	79.4	552.0	539.9
10.0	6.0	5.6	60.3	75.4	58.3	73.6	54.3	78.7	52.3	75.2	25.0	32.7	54.3	78.7	52.3	75.1	545.4	534.6
16.0	7.5	7.0	57.2	73.7	55.2	71.3	49.7	75.6	47.7	71.5	25.0	30.9	49.7	75.6	47.7	72.4	543.0	532.7
20.0	8.4	7.9	55.8	72.7	53.8	71.0	47.4	73.0	45.4	71.0	25.0	33.7	47.4	73.0	45.4	70.3	542.0	531.8
31.2	10.5	9.8	52.9	70.3	50.9	67.6	42.3	68.5	40.3	66.4	23.6	29.2	42.3	68.5	40.3	65.8	540.4	530.4
62.5	14.8	13.7	48.4	61.1	46.4	58.7	33.6	62.8	31.6	59.9	21.5	31.2	33.6	62.8	31.6	59.6	538.6	528.8
100.0	19.2	17.7	45.3	61.3	43.3	58.0	26.1	57.4	24.1	54.5	20.1	28.8	26.1	57.4	24.1	54.6	537.6	527.8
160.0	24.5	22.5	42.2	54.0	40.2	52.7	17.7	48.7	15.7	48.3	18.7	30.2	17.7	48.7	15.7	47.6	536.8	527.2
200.0	27.6	25.2	40.8	56.5	38.8	54.1	13.2	46.4	11.2	46.1	18.0	28.8	13.2	46.4	11.2	46.3	536.5	526.9
250.0	31.1	28.3	39.3	55.4	37.3	53.2	8.3	48.7	6.3	47.9	17.3	25.5	8.3	48.7	6.3	47.1	536.3	526.6
300.0	34.3	31.1	38.1	51.0	36.1	47.3	3.9	50.5	1.9	48.3	17.3	23.9	3.9	50.5	1.9	48.9	536.1	526.5
400.0	40.1	36.0	36.3	50.8	34.3	47.5	-3.8	40.5	-5.8	40.2	17.3	23.7	-3.8	40.5	-5.8	40.4	535.8	526.2
500.0	45.3	40.5	34.8	46.8	32.8	43.5	-10.4	43.6	-12.4	41.4	17.3	25.7	-10.4	43.6	-12.4	41.2	535.6	526.0
550*	-	42.6	-	43.1	-	42.4	-	38.9	-	37.3	-	22.4	-	38.9	-	36.3	-	526.0
625*	-	42.8	-	42.1	-	40.7	-	38.2	-	36.2	-	23.7	-	38.2	-	35.6	-	525.9
750*	-	42.8	-	42.1	-	40.7	-	38.2	-	36.2	-	23.7	-	38.2	-	35.6	-	525.9

*Values above 500 MHz are for information only.

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

Ordering Information

Part Number Description

9U6W4-A5-12-R1A..... Category 6A UTP Indoor/Outdoor, 23AWG, Teal, 305m (1000 ft.) Reel.



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

North America
P: (1) 860 945 4200

Mexico
P: (521) 556 387 7708/09/10

Latin America
P: (571) 657 1950/51/52

Europe
P: (44) 0 1932 571771

Asia Pacific
P: (61) 2 8977 7500

Siemon OEM Technologies
P: (1) 860 945 4213
www.siemon.com/OEM

China
P: (86) 215385 0303

India, Middle East & Africa
P: (971) 4 3689743

SCAN TO DOWNLOAD SPEC SHEET

