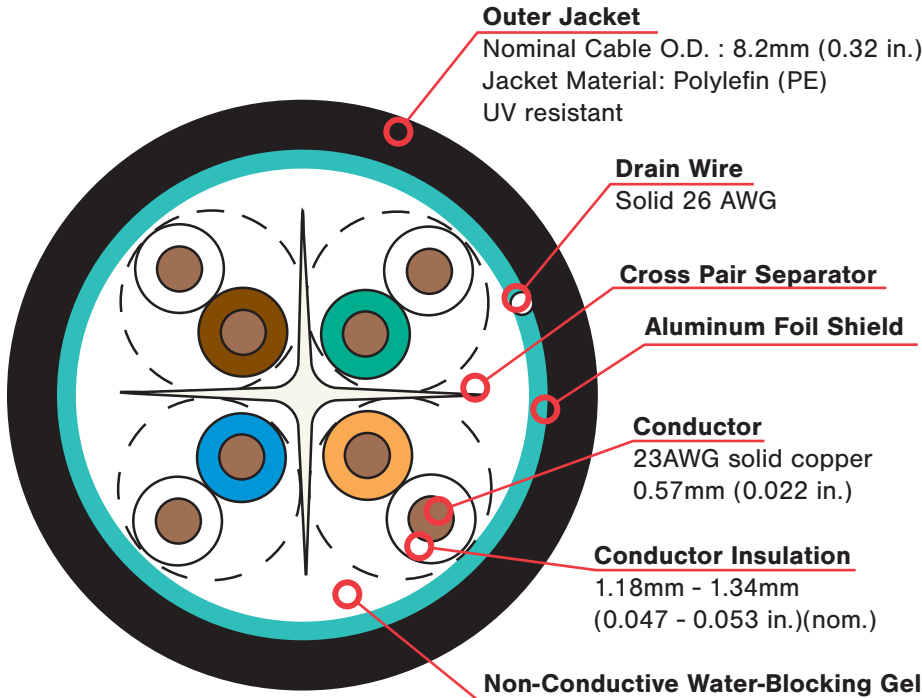


Category 6A F/UTP Shielded Gel Filled OSP Cable - Global

Siemon's category 6A F/UTP shielded outside plant (OSP) cable delivers TIA and ISO/IEC performance requirements for shielded category 6A/class EA. This robust shielded 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 UV-resistant outer jacket is then applied over an aluminum foil shield for superior RFI and EMI protection.



CABLE FEATURES

- F/UTP
- Nominal Jacket OD: 8.2mm (0.32 in.)
- 23 AWG 0.57 (0.022 in.) solid bare copper
- Water blocking gel construction
- UV-resistant polyethylene (PE) jacket
- 75° temperature rating
- For use in direct burial, lashed aerial, duct and underground conduit applications

STANDARDS COMPLIANCE

- ISO/IEC 11801-1 (Class Ea)
- ANSI/TIA-568.2-D (Category 6A)
- IEC 61156-5 (Category 6A)
- ICEA-107-2012
- RoHS
- REACH

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)



Siemon's **PowerGUARD** technology with a 75° operating temperature improves heat dissipation for reduced length derating and bundling requirements in remote powering applications, including PoE and Power over HDBaseT (PoH)



Category 6A F/UTP Shielded Gel Filled OSP Cable

Product Information

Electrical Specifications

DC Resistance	<9.38Ω/100m
DC Resistance Unbalance	2%
Mutual Capacitance	≤5.6 nF/100m
Capacitance Unbalance	≤160 pF/100m
NVP	65%
TCL	≥40-10 log(f)
Delay Skew	≤45ns/100m

Physical Properties

Pulling Tension (max)	110N (25 lbf)
Bend Radius (min)	66mm (2.56 in.)
Installation Temperature	-10 to 60°C (14 to 140°F)
Storage Temperature	-20 to 60°C (-4 to 140°F)
Operating Temperature	-40 to 75 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)	
	Guaranteed Worst Case	Siemon Typical	Guaranteed Worst Case	Siemon Typical	Guaranteed Worst Case	Siemon Typical	Guaranteed Worst Case	Siemon Typical	Guaranteed Worst Case	Siemon Typical	Guaranteed Worst Case	Siemon Typical	Guaranteed Worst Case	Siemon Typical	Guaranteed Worst Case	Siemon Typical	Guaranteed Worst Case	Siemon Typical
1.0	2.1	1.7	75.3	101.2	73.3	97.8	73.3	97.3	71.3	95.2	20.0	26.5	73.2	99.6	71.2	96.2	570	524
4.0	3.8	3.5	66.3	90.5	64.3	88.3	61.3	82.5	59.3	82.2	23.0	30.8	62.5	87.3	60.5	84.9	552	521
10.0	5.9	5.5	60.3	77.6	58.3	76.0	53.3	74.2	51.3	73.9	25.0	32.7	54.4	72.7	52.4	70.7	545	518
16.0	7.5	7.0	57.2	70.3	55.2	69.7	49.2	69.1	47.2	68.9	25.0	32.1	49.8	64.0	47.8	63.3	543	517
20.0	8.4	7.9	55.8	72.8	53.8	70.4	47.3	63.3	45.3	63.2	25.0	34.8	47.4	65.8	45.4	63.1	542	516
31.25	10.5	9.9	52.9	70.1	50.9	68.5	43.4	57.3	41.4	57.3	23.7	32.0	42.4	61.1	40.4	58.9	540	515
62.5	15.0	14.0	48.4	67.7	46.4	64.5	37.4	56.2	35.4	55.5	21.5	31.5	33.4	54.1	31.4	51.4	539	514
100.0	19.1	17.8	45.3	65.8	43.3	63.8	33.3	50.9	31.3	48.9	20.1	32.7	26.2	49.4	24.2	46.7	538	514
160.0	24.5	22.8	42.2	61.5	40.2	58.9	29.2	45.4	27.2	45.4	18.7	29.6	17.7	39.5	15.7	37.5	537	514
200.0	27.6	25.4	40.8	59.0	38.8	56.0	27.3	46.0	25.3	45.7	18.0	29.8	13.2	33.6	11.2	30.6	537	513
250.0	31.1	28.5	39.3	54.8	37.3	52.8	25.3	43.9	23.3	43.3	17.3	28.9	8.3	27.1	6.3	25.2	536	513
300.0	34.3	31.3	38.1	56.6	36.1	53.4	23.8	39.9	21.8	39.7	17.3	26.0	3.9	26.5	1.9	24.0	536	513
400.0	40.1	36.4	36.3	48.9	34.3	47.2	21.3	47.5	19.3	46.2	17.3	21.5	-3.8	13.5	-5.8	12.7	536	513
500.0	45.3	41.0	34.8	48.6	32.8	45.8	19.3	46.1	17.3	44.6	17.3	21.7	-10.4	8.7	-12.4	6.7	536	513
550.0*	-	43.5	-	47.7	-	45.4	-	36.3	-	35.8	-	19.5	-	7.2	-	5.0	-	513
625.0*	-	46.3	-	45.8	-	45.2	-	40.1	-	39.3	-	19.5	-	2.6	-	1.5	-	513
750.0*	-	51.0	-	47.0	-	44.9	-	33.9	-	33.3	-	15.6	-	-1.4	-	-3.8	-	513

* Values for frequencies beyond industry requirements are for information only.

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

Ordering Information

Part Number	Description
9A604-A5-01AR1A	Category 6A outside plant gel filled direct burial cable, 4-pair, 23-AWG, F/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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