

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

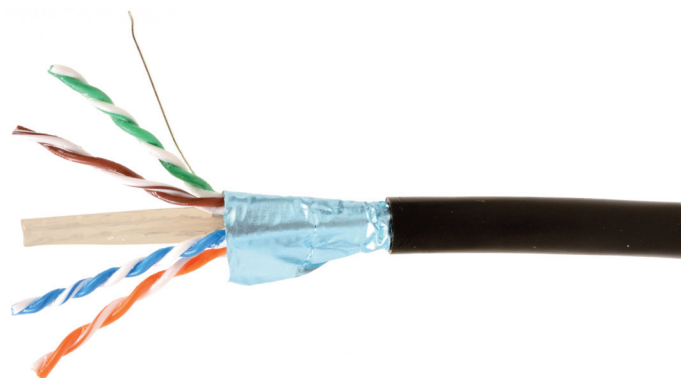
Siemon's category 6A F/UTP shielded outside plant (OSP) cable delivers TIA and ISO/IEC performance requirements for shielded category 6A/class EA. This robust shielded cable is designed to support the latest applications in outside wet environments, including 10GBASE-T, PoE+ and HDBaseT. Suitable for 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

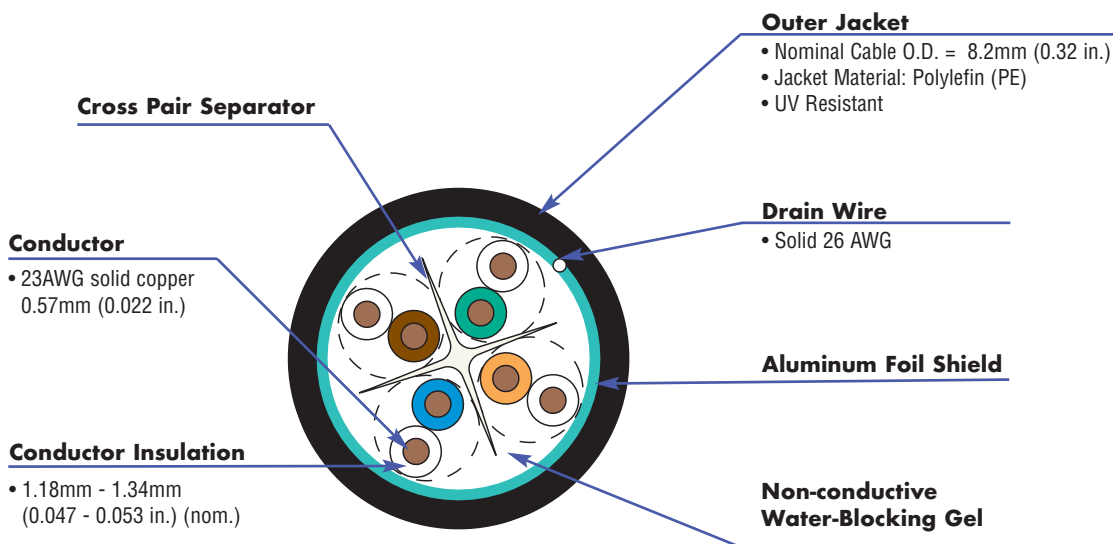
STANDARDS COMPLIANCE:

- ISO/IEC 11801-1 (Class Ea)
- ANSI/TIA-568.2-D (Category 6A)
- IEC 61156-5 (Category 6A)
- ICEA-107-2012
- UL 444
- 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)



Product Information

ELECTRICAL SPECIFICATIONS

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

PHYSICAL PROPERTIES

Pulling Tension (max)	110N (2.5 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	-20 to 75°C (-4 to 167°F)

TRANSMISSION PERFORMANCE

GUARANTEED WORSE CASE
 SIEMON TYPICAL

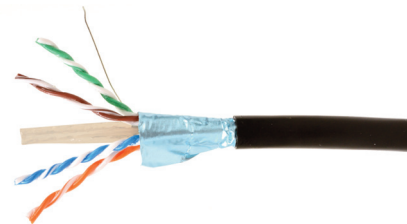
Frequency (MHz)	Insertion Loss (dB)		NEXT (dB)		PS NEXT (dB)		ACR-F (dB)		PS ACR-F (dB)		Return Loss (dB)		ACR-N (dB)		PS ACR-N (dB)		Propagation Delay (ns)	
	Guaranteed	Typical	Guaranteed	Typical	Guaranteed	Typical	Guaranteed	Typical	Guaranteed	Typical	Guaranteed	Typical	Guaranteed	Typical	Guaranteed	Typical	Guaranteed	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 #	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.

Worldwide Headquarters
North America
 Watertown, CT USA
 Phone (1) 860 945 4200

Regional Headquarters
Europe Russia Africa
 Chertsy, Surrey, England
 Phone (44) 0 1932 571771

Regional Headquarters
China
 Shanghai, P.R. China
 Phone (86) 215385 0303

Regional Headquarters
Latin America
 Bogota, Colombia
 Phone (571) 657 1950/51/52

Regional Headquarters
India Middle East
 Dubai, United Arab Emirates
 Phone (971) 4 3689743

Regional Headquarters
Asia Pacific
 Sydney, Australia
 Phone (61) 2 8977 7500

Siemon Interconnect Solutions
Watertown, CT USA
 Phone (1) 860 945 4213 US
 www.siemon.com/SIS