

Category 6A F/UTP Shielded OSP Cable - Global

Siemon's category 6A F/UTP shielded outside plant (OSP) cable delivers TIA and ISO 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 and then surrounded by an inner polyolefin jacket. The cable's rugged UV-resistant outer jacket is then applied over a layer of water-blocking aramid yarn with a super absorbent polymer and an aluminum foil shield for superior RFI and EMI protection.

HIGHLIGHTS

- For use in direct burial, lashed aerial, duct and underground conduit applications
- Supports all applications designed to operate over category 6A or lower rated systems.
- Sequential measurement marking on jacket

CONSTRUCTION

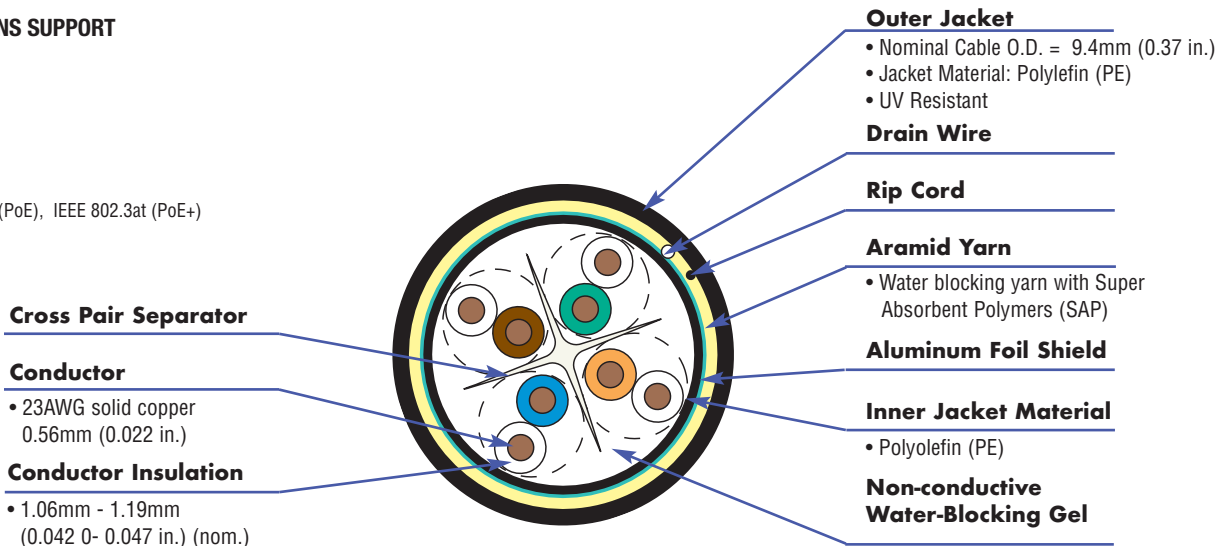
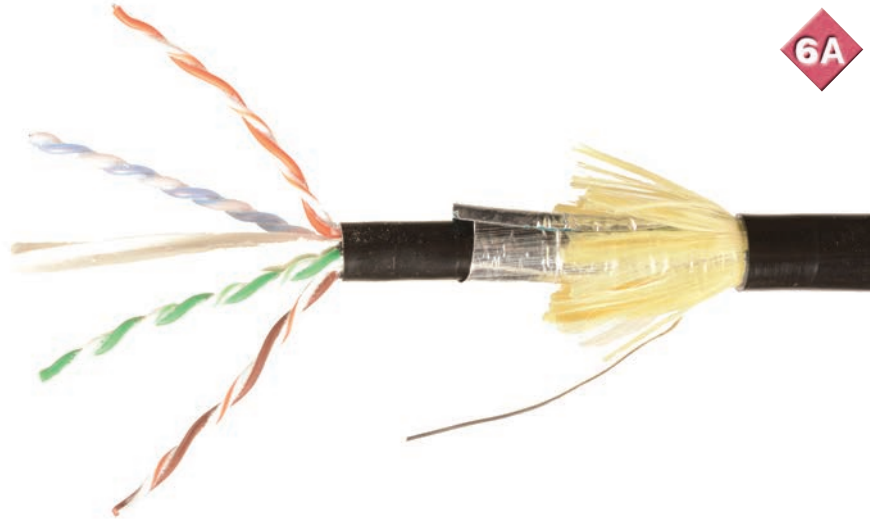
- Water blocking construction (aramid yarn & gel)
- UV-resistant polyethylene (PE) jacket
- F/UTP shielded OSP, 4-pair

STANDARDS

- ANSI/TIA-568-C.2 Category 6A
- ISO 11801 Class EA
- RoHS
- IEC 61156-5 Category 6A
- ICEA-107-2012
- REACH

APPLICATIONS SUPPORT

- 10BASE-T
- 100BASE-T
- 1000BASE-T
- 10GBASE-T
- HDBase-T
- IEEE 802.3af (PoE), IEEE 802.3at (PoE+)



Product Information

ELECTRICAL SPECIFICATIONS

DC Resistance	<7.32Ω/100m
DC resistance Unbalance	5%
Mutual Capacitance	5.6 nF/100m
Capacitance Unbalance	<330 pF/100m
NVP	66%
TCL	30-10log(f/100)dB
Delay Skew	≤45ns/100m

PHYSICAL PROPERTIES

Pulling Tension (max)	110N (25 lbf)
Bend Radius (min)	76mm (3 in.)
Installation Temperature	-20 to 70°C (-4 to 158°F)
Storage Temperature	-40 to 70°C (-40 to 158°F)
Operating Temperature	-40 to 70°C (-40 to 158°F)

TRANSMISSION PERFORMANCE

GUARANTEED WORSE CASE
 SIEMON TYPICAL

Frequency (MHz)	Insertion Loss (dB/100m)		NEXT (dB)		PS NEXT (dB)		ACR (dB)		PS ACR (dB)		ACR-F (dB)		PS ACR-F (dB)		Return Loss (dB)		Propagation Delay** (ns)	
	-2.1	-1.3	-75.3	-95.6	-73.3	-94.9	-73.2	-94.3	-71.2	-93.5	-73.3	-93.8	-71.3	-91.1	-20.0	-28.5	597	574
4.0	-3.8	-3.0	-66.3	-86.3	-64.3	-83.2	-62.5	-83.0	-60.5	-80.1	-61.3	-82.3	-59.3	-79.2	-23.0	-24.6	578	570
10.0	-5.9	-5.0	-60.3	-79.0	-58.3	-76.9	-54.4	-73.9	-52.4	-71.8	-53.3	-72.8	-51.3	-70.7	-25.0	-29.4	572	566
16.0	-7.5	-6.4	-57.2	-74.3	-55.2	-71.8	-49.8	-67.8	-47.8	-65.0	-49.2	-67.9	-47.2	-65.6	-25.0	-28.9	570	565
20.0	-8.4	-7.2	-55.8	-76.5	-53.8	-72.5	-47.4	-68.8	-45.4	-65.2	-47.3	-67.2	-45.3	-64.9	-25.0	-27.0	569	565
31.25	-10.5	-9.0	-52.9	-73.1	-50.9	-70.6	-42.4	-63.4	-40.4	-60.9	-43.4	-63.5	-41.4	-62.5	-23.6	-29.2	567	564
62.5	-15.0	-12.9	-48.4	-69.7	-46.4	-66.6	-33.4	-56.1	-31.4	-52.8	-37.4	-57.6	-35.4	-54.9	-21.5	-27.7	565	563
100.0	-19.1	-16.4	-45.3	-66.0	-43.3	-64.3	-26.2	-48.6	-24.2	-46.9	-33.3	-56.8	-31.3	-55.0	-20.1	-26.3	564	563
200.0	-27.6	-23.5	-40.8	-62.0	-38.8	-58.9	-13.2	-38.2	-11.2	-35.2	-27.3	-46.7	-25.3	-44.7	-18.0	-28.0	563	562
250.0	-31.1	-26.5	-39.3	-58.8	-37.3	-57.9	-8.3	-32.0	-6.3	-29.3	-25.3	-46.0	-23.3	-44.4	-17.3	-25.3	563	562
300.0	-34.3	-29.2	-38.1	-60.2	-36.1	-56.4	-3.9	-29.9	-1.9	-25.5	-23.8	-43.8	-21.8	-42.4	-17.3	-23.2	563	562
400.0	-40.1	-34.2	-36.3	-58.2	-34.3	-55.0	3.8	-20.3	5.8	-17.3	-21.3	-43.7	-19.3	-40.0	-17.3	-20.6	562	562
500.0	-45.3	-38.5	-34.8	-55.3	-32.8	-54.0	10.4	-15.7	12.4	-13.5	-19.3	-42.4	-17.3	-39.0	-17.3	-19.9	562	562
550.0*	-	-40.7	-	-56.5	-	-52.9	-	-10.3	-	-6.7	-	-39.0	-	-36.6	-	-20.5	-	562
625.0*	-	-43.9	-	-54.0	-	-51.5	-	-6.8	-	-4.4	-	-36.4	-	-35.4	-	-17.3	-	562
750.0*	-	-49.4	-	-47.0	-	-45.5	-	3.2	-	7.4	-	-33.3	-	-31.9	-	-15.3	-	562

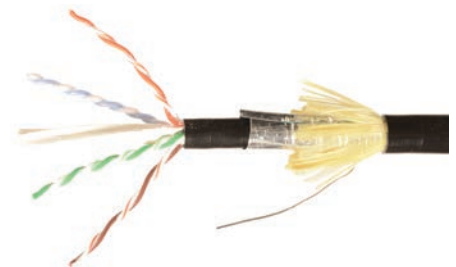
* Values for frequencies beyond industry requirements are for information only.

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

** Maximum distance limitations are 85m (279ft) - Permanent Link and 95m (312ft) - Channel due to a degradation in propagation delay from water blocking gel.

Ordering Information

Part #	Description
9A604-A5-01-R1A.....	Category 6A outside plant direct burial cable, 4-pair, 23-AWG, F/UTP, black, 305m (1000 ft.) reel



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

Regional Headquarters
Europe Russia Africa
 Chertsey, 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