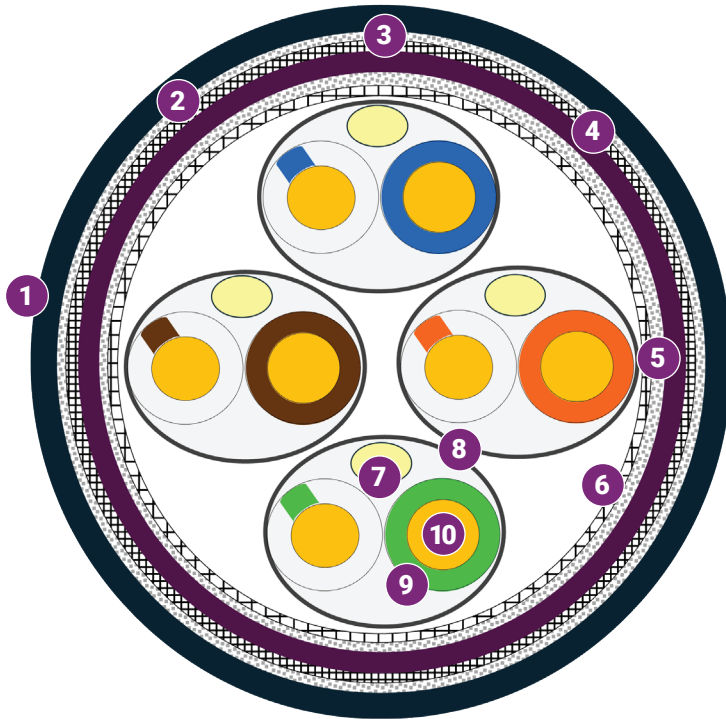


# Category 6A S/FTP OSP 4-Pair Cable with Braided Armour

Regional Availability – Global



Siemon's Category 6A shielded outside plant (OSP) cable is designed to support the latest applications such as 10GBASE-T and all levels of Power over Ethernet (PoE) in outdoor environments. The inner core of this 4-pair cable is a S/FTP construction with a low smoke, zero-halogen jacket. Each pair is individually shielded and also includes a filler for protection against moisture. The cable is filled with layers of non-conductive water blocking gel to prevent moisture ingress. The exterior layers of this cable include a dense braid layer to provide additional resistance to rodents and finally a rugged UV-resistant outer jacket for additional protection from the elements. This cable is suitable for direct burial, duct and underground conduit installations.



Outer sheath with armour braid layer for harsh environments.

- |                       |                                     |                         |
|-----------------------|-------------------------------------|-------------------------|
| 1. Outer Sheath       | 5. Water-Blocking Gel               | 9. Conductor Insulation |
| 2. Water Blocking Gel | 6. Overall Braid Screen             | 10. Conductor           |
| 3. Armour             | 7. Filler (Water Blocking Filament) |                         |
| 4. Inner Sheath       | 8. Individual Pair Foil Screen      |                         |

## Compliance

- ISO/IEC 11801-1 (Class Ea)
- ANSI/TIA-568.2-E (Category 6A)
- IEC 61156-5 (Category 6A)
- UL444 7.22 Sunlight Resistant 720 hrs

## 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)

## Cable Construction

- Inner cable core S/FTP construction with low smoke, zero-halogen jacket
- Outer Jacket Color: Black  
Inner Jacket Color: Violet
- Nominal Outer Jacket O.D.: 10.6 mm
- Nominal Inner Jacket O.D.: 7.8± 0.5mm
- Sunlight resistant
- -15 to 60° C temperature rating
- Conductor: 23 AWG annealed bare copper
- Insulation: Foam Polyethylene
- Screen: Individually poly laminate screened pairs and overall tinned copper wire braided cable (≥30%)
- Cable is filled with 2 layers of water-blocking gel
- Armoured: Galvanized steel wire
- Outer Sheath: LLDPE
- UV: 720h, min retention of tensile and elongation 80%
- Rodent Resistance: GB34016-2017, FS2



Data | Power | Reach | Delivered

# Product Information

## ELECTRICAL SPECIFICATIONS

DC RESISTANCE	≤9.38Ω/100m
DC RESISTANCE UNBALANCE WITHIN PAIRS	≤2%
DC RESISTANCE UNBALANCE BETWEEN PAIRS	≤5%
MUTUAL CAPITANCE	≤5.6 nF/100m
CAPACITANCE UNBALANCE	≤330 pF/100m
NVP	74%
TCL	≥50-10log(f) dB
DELAY SKEW	≤45ns

## PHYSICAL PROPERTIES

PULLING TENSION (MAX)	100N
BEND RADIUS (MIN)	8 x O.D.
NOMINAL WEIGHT	175 KG/KM
OPERATING TEMPERATURE	-15°C to +60°C (5 to 140°F)
INSTALLATION TEMPERATURE	0°C to +50°C (32 to 122°F)
STORAGE TEMPERATURE	-15°C to +75°C (5 to 167°F)

## TRANSMISSION PERFORMANCE

TEST PARAMETER	FREQUENCY (MHz)																
	1.0	4.0	10.0	16.0	20.0	31.25	62.5	100.0	160.0	200.0	250.0	300.0	400.0	500.0	550.0*	625.0*	750.0*
INSERTION LOSS (dB)	2.1	3.8	5.9	7.5	8.4	10.5	15.0	19.1	24.5	27.6	31.1	34.3	40.1	45.3	-	-	-
	2.0	3.6	5.5	7.1	7.9	10.1	14.4	18.3	23.4	26.1	29.4	32.3	37.8	42.4	44.8	47.9	53.1
NEXT (dB)	75.3	66.3	60.3	57.2	55.8	52.9	48.4	45.3	42.2	40.8	39.3	38.1	36.3	34.8	-	-	-
	96.8	88.5	73.4	76.2	72.9	83.8	84.4	81.2	75.0	72.4	73.4	71.2	67.9	67.2	62.0	56.3	58.5
PS NEXT (dB)	73.3	64.3	58.3	55.2	53.8	50.9	46.4	43.3	40.2	38.8	37.3	36.1	34.3	32.8	-	-	-
	94.7	87.3	72.3	74.9	71.6	81.4	83.0	79.4	73.7	69.6	70.7	68.0	66.5	65.0	59.3	55.1	55.9
ACR-F (dB)	73.3	61.3	53.3	49.2	47.3	43.4	37.4	33.3	29.2	27.3	25.3	23.8	21.3	19.3	-	-	-
	100.3	89.9	71.5	73.4	69.7	74.8	71.3	76.6	62.9	64.4	60.9	64.6	47.9	61.5	54.9	47.3	43.8
PS ACR-F (dB)	71.3	59.3	51.3	47.2	45.3	41.4	35.4	31.3	27.2	25.3	23.3	21.8	19.3	17.3	-	-	-
	97.7	88.6	70.7	71.9	68.6	73.4	70.5	73.5	61.7	61.9	60.8	62.4	46.8	57.3	54.1	44.8	42.0
RETURN LOSS (dB)	20.0	23.0	25.0	25.0	25.0	23.7	21.5	20.1	18.7	18.0	17.3	17.3	17.3	17.3	-	-	-
	25.8	31.5	34.9	32.7	32.3	36.9	35.4	31.3	28.0	25.4	25.1	24.7	20.4	23.1	18.8	18.7	15.4
ACR-N (dB)	73.2	62.5	54.4	49.8	47.4	42.4	33.4	26.2	17.7	13.2	8.3	3.9	-3.8	-10.4	-	-	-
	94.8	85.0	67.9	69.2	65.0	73.9	70.3	63.2	51.9	46.7	44.4	39.4	30.6	25.3	17.7	8.9	6.3
PS ACR-N (dB)	71.2	60.5	52.4	47.8	45.4	40.4	31.4	24.2	15.7	11.2	6.3	1.9	-5.8	-12.4	-	-	-
	92.7	83.7	66.8	67.8	63.6	71.5	68.8	61.4	50.7	43.8	41.7	36.1	29.2	23.1	14.4	7.2	3.4
PROPAGATION DELAY (ns)	570	552	545	543	542	540	539	538	537	537	536	536	536	536	-	-	-
	454	451	447	446	445	444	444	443	443	443	443	443	442	442	442	442	442

All performance based on 100 meters (328 ft.)

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

## Ordering Information

Part Number	Description
9T604-A5-01ARR1	Category 6A S/FTP Outside Plant 4-Pair Cable with Braided Armour Under Outer Sheath, Black, 305M Reel



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