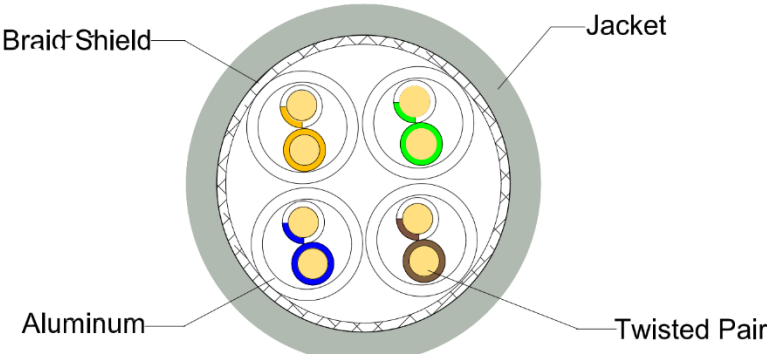




# Wildcat Category 6a Outdoor Level 2 SF/TP Ethernet Cable

SKU: C6a-UVSFTP-

- Industrial Grade WISP Cable
- Tough, Thick Black UV-Stable Outer Jacket
- 10GBASE-T Certified Category 6a
- Level-2 SF/TP Braid + Foil Shielded Twisted Pair
- Anti-Crosstalk Divider
- ESD Drain for Outdoor Installations
- Reduced EMI Crosstalk & Improved SNR
- Adheres to AS/NZS 11801.1:2019



Mechanical Specifications	
Standards	ANSI/TIA-568-C.2 IEC 61156-5 EN 50288-10-1 EN 50173 ISO/IEC 11801 EN 50575 AS/NZS 11801.1:2019
Conductor Material	99.99% Solid Bare Copper
Conductor Number	8C (4Pairs)
Cable AWG	23
Construction	1/0.585mm (±0.01mm)
Shielding Overlap	Aluminium/Polyester
Braided Shield	Tinned Copper
Insulation Material	Foam



Insulation Thickness	0.37mm
Insulation Diameter	1.38mm ( $\pm 0.05$ mm)
Jacket Material	PE
Jacket Colour	Black
Jacket Thickness	0.60mm ( $\pm 0.05$ mm)
Jacket Diameter	7.8mm ( $\pm 0.3$ mm)

## Electrical Specifications

Max Conductor DC Resistance	73 $\Omega$ /km
Min. Insulation Resistance	5000M $\Omega$ -km
1.0-100.0MHz Characteristic Impedance	100 $\Omega$ $\pm$ 15
1.0-100.0MHz Delay Difference (20°C)	<45ns/100m
Pair to Ground Capacitance Unbalance	<330PF/100m
Resistance Unbalance Between Pairs	<4%
Max Mutual Capacitance	5.6nF/100m
Max DC Loop Resistance	19.2 $\Omega$ /100m
Tensile Strength	>16.5Mpa
Velocity of Propagation NVP	78%



## Electrical Specifications

Freq. (MHz)	ATTN (dB/100m)	RL (dB)	NEXT (dB)	ELFEXT (dB/100m)	PS NEXT (dB/100m)	PS ELFEXT (dB/100m)
4	3.8	23.0	66.3	56.0	63.3	53.0
8	5.3	24.5	61.8	49.9	58.8	46.0
10	5.9	25.0	60.3	48.0	57.3	45.0
16	7.5	25.0	57.2	43.9	54.2	40.9
20	8.4	25.0	55.8	42.0	52.8	39.0
25	9.4	24.3	54.3	40.0	51.3	37.0
31.25	10.5	23.6	52.9	38.1	49.9	35.1
62.5	15.0	21.5	48.4	32.1	45.4	29.1
100	19.1	20.1	45.3	28.0	42.3	25.0
200	27.6	18.0	40.8	22.0	37.8	19.0
250	31.1	17.3	39.3	20.0	36.3	17.0
300	34.1	17.3	38.1	18.5	35.1	15.5
500	45.3	17.3	34.8	14.0	31.8	11.0

### TIA Cat 6A Perm. Link

Wire Map	Res. $\Omega$	Length Max.	Prop. Delay nS	Delay Skew nS	Freq. MHz	Insertion Loss dB	NEXT dB	RL dB	ACR-N dB	ACR-F dB	PS NEXT dB	PS ACR-N dB	PS ACR-F dB
12345678 12345678 12345678S 12345678S	i	90 m	498	44	1	3	65.0	19.1	62.0	64.2	62.0	59.0	61.2
					4	3.5	64.1	21.0	60.5	52.1	61.8	58.3	49.1
					8	5	59.4	21.0	54.4	46.1	57.0	52.1	43.1
					10	5.5	57.8	21.0	52.3	44.2	55.5	50.0	41.2
					16	7	54.6	20.0	47.6	40.1	52.2	45.2	37.1
					20	7.8	53.1	19.5	45.2	38.2	50.7	42.8	35.2
					25	8.8	51.5	19.0	42.8	36.2	49.1	40.4	33.2
					31.25	9.8	50.0	18.5	40.2	34.3	47.5	37.7	31.3
					62.5	14	45.1	16.0	31.1	28.3	42.7	28.6	25.3
					100	18	41.8	14.0	23.9	24.2	39.3	21.3	21.2
					200	26.1	36.9	11.0	10.8	18.2	34.3	8.2	15.2
					250	29.5	35.3	10.0	5.8	16.2	32.7	3.2	13.2
					350	35.6	31.8	8.6	-3.8	13.3	29.1	-6.5	10.3
					500	43.8	26.7	8.0	-17.1	10.2	23.8	-20	7.2