

CAT 6A

U/FTP 4 PR AWG 23/1



CONDUCTOR	Solid copper conductor 23 AWG/1
INSULATION	Foam PE
PAIR SHIELDING	Aluminium foil
SHEATH	LSZH
REFERENCE STANDARD	IEC 61156-5

PHYSICAL PROPERTIES:

BENDING RADIUS (Installation/Fixed)	8 x Ø/4 x Ø
MAX. RECOMMENDED PULLING TENSION	110 N
NOMINAL OUTER Ø	6.0 ± 0.3 mm
CABLE WEIGHT	40 kg/km
CORE IDENTIFICATION Pair colours	1. White/Blue stripe & Blue 2. White/Orange stripe & Orange 3. White/Green stripe & Green 4. White/Brown stripe & Brown
PACKAGING	305 m box, 500 m drum

MAIN CHARACTERISTICS:

FIRE PERFORMANCE	IEC 60332-3-24 Dca-s2-d2-a1
UV RESISTANCE (Black or grey cables only)	UL1581 section 1200
HALOGEN-FREE	IEC 60754 series
MAX. CONDUCTOR DC RESISTANCE	95 Ω/km @20 °C
CONDUCTOR LOOP RESISTANCE	max. 19 Ω/100 m @20 °C
NOM. MUTUAL CAPACITANCE	≤ 5.6 nF/100 m @1 kHz
CAPACITANCE UNBALANCE PAIR TO GROUND	≤ 160 pF/km @1 kHz
MIN. INSULATION RESISTANCE	>5000 MΩ/m
IMPEDANCE	100 ± 5 Ω @100 MHz
RATED TEMPERATURE	75 °C
OPERATING TEMPERATURE RANGE	-20 °C - 75 °C

Subject to change without prior notice. See latest update on our webpage.

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THE PERFECT CONNECTION

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ITEM NUMBERS:

Part number	Cable type	Colour	Standard length m
3334124042	CAT 6A U/FTP AWG 23/1	Black	305
3334224042	CAT 6A U/FTP AWG 23/1	Yellow	305
3334324042	CAT 6A U/FTP AWG 23/1	Grey	305
3334424042	CAT 6A U/FTP AWG 23/1	White	305
3334524042	CAT 6A U/FTP AWG 23/1	Orange	305
3334624042	CAT 6A U/FTP AWG 23/1	Blue	305
3334724042	CAT 6A U/FTP AWG 23/1	Red	305
3334824042	CAT 6A U/FTP AWG 23/1	Green	305
3335124042	CAT 6A U/FTP AWG 23/1	Black	500
3335224042	CAT 6A U/FTP AWG 23/1	Yellow	500
3335324042	CAT 6A U/FTP AWG 23/1	Grey	500
3335424042	CAT 6A U/FTP AWG 23/1	White	500
3335524042	CAT 6A U/FTP AWG 23/1	Orange	500
3335624042	CAT 6A U/FTP AWG 23/1	Blue	500
3335724042	CAT 6A U/FTP AWG 23/1	Red	500
3335824042	CAT 6A U/FTP AWG 23/1	Green	500

PERFORMANCE:

F (MHz)	ATT (dB/100 m)	RL (dB)	NEXT (dB)	PS NEXT (dB)	ACRF (EL FEXT) (dB/100 m)	PS ACRF (PS EL FEXT) (dB/100 m)	PD (ns/100 m)
1.0	2.1	20	75	72	68	65	570
4.0	3.8	23	66	63	56	53	552
8.0	5.3	25	62	59	50	47	547
10.0	5.9	25	60	57	48	45	545
16.0	7.5	25	57	54	44	41	543
20.0	8.4	25	56	53	42	39	542
25.0	9.4	24	54	51	40	37	541
31.2	10.5	24	53	50	38	35	540
62.5	15.0	22	48	45	32	29	539
100.0	19.1	20	45	42	28	25	538
200.0	27.6	18	41	38	22	19	537
250.0	31.1	17	39	36	20	17	536
300	34.3	17	38	35	18	15	536
400	40.1	17	36	33	16	13	536
500	45.3	17	35	32	14	11	536

F = Frequency

ATT = Attenuation

RL = Return Loss

NEXT = Near End Crosstalk

PS NEXT = Power Sum Near End Crosstalk

ACRF (EL FEXT) = Attenuation to Crosstalk Ratio Far End Crosstalk

PS ACRF (PS EL FEXT) = Power Sum Attenuation to Crosstalk Ratio Far End Crosstalk

PD = Phase Delay