

CAT 6

U/UTP 4 PR AWG 24/1



CONDUCTOR	Solid copper conductor 24 AWG/1
INSULATION	Solid PE
SHEATH	LSZH
REFERENCE STANDARD	IEC 61156-5

PHYSICAL PROPERTIES:

BENDING RADIUS Installation/Fixed)	8 x Ø / 4 x Ø
MAX. RECOMMENDED PULLING TENSION	100 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	93.8 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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HELKAMA
THE PERFECT CONNECTION

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ITEM NUMBERS:

Part number	Cable type	Colour	Standard length m
3310123042	CAT 6 U/UTP AWG 24/1	Black	305 box
3310223042	CAT 6 U/UTP AWG 24/1	Yellow	305 box
3310323042	CAT 6 U/UTP AWG 24/1	Grey	305 box
3310423042	CAT 6 U/UTP AWG 24/1	White	305 box
3310523042	CAT 6 U/UTP AWG 24/1	Orange	305 box
3310623042	CAT 6 U/UTP AWG 24/1	Blue	305 box
3310723042	CAT 6 U/UTP AWG 24/1	Red	305 box
3310823042	CAT 6 U/UTP AWG 24/1	Green	305 box
3311123042	CAT 6 U/UTP AWG 24/1	Black	500
3311223042	CAT 6 U/UTP AWG 24/1	Yellow	500
3311323042	CAT 6 U/UTP AWG 24/1	Grey	500
3311423042	CAT 6 U/UTP AWG 24/1	White	500
3311523042	CAT 6 U/UTP AWG 24/1	Orange	500
3311623042	CAT 6 U/UTP AWG 24/1	Blue	500
3311723042	CAT 6 U/UTP AWG 24/1	Red	500
3311823042	CAT 6 U/UTP AWG 24/1	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	74	72	68	65	570
4.0	3.8	23	65	63	56	53	552
8.0	5.3	25	61	59	50	47	547
10.0	5.9	25	59	57	48	45	545
16.0	7.5	25	56	54	44	41	543
20.0	8.4	25	55	53	42	39	542
25.0	9.4	24	53	51	40	37	541
31.2	10.5	24	52	50	38	35	540
70.0	15.0	22	47	45	32	29	539
100.0	19.1	20	44	42	28	25	538
200.0	27.6	18	40	38	22	19	537
250.0	31.1	17	38	36	20	17	536
300	34.3	17	37	35	18	15	536
400	40.1	17	35	33	16	13	536
500	45.3	17	34	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