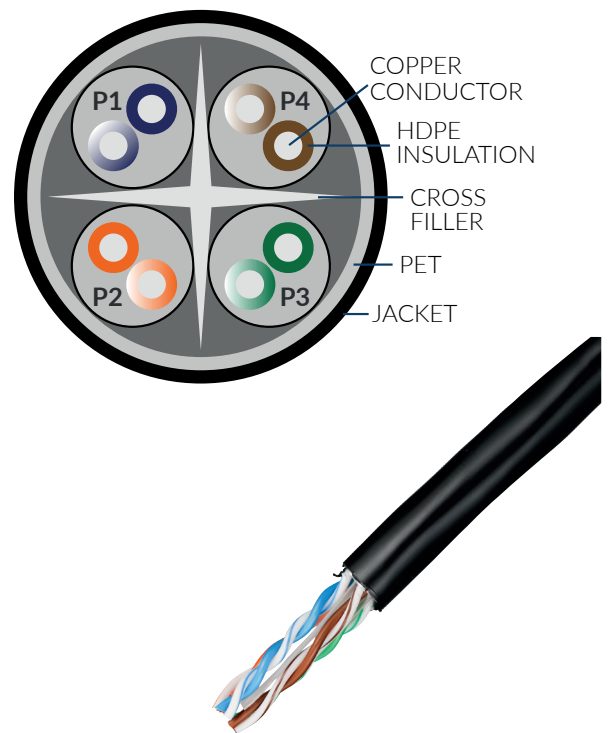


EM02.104 Specification Sheet

U/UTP CAT6 4*2*23AWG LDPE

	STRUCTURE AWG	AWG	23# (1/23)
CONDUCTORS	Material	23	Solid Bare Copper
	Diameter	mm	Ø 0.574+/-0.008
INSULATION	Material	----	HDPE
	Diameter	mm	Ø 1.01+/-0.05
	Average Thickness	mm	0.22+/-0.05
SHIELDING 1	Type	----	----
ASSEMBLY	Direction	----	S
	No. of Insulations	Pair	4
SHIELDING 2	Material	----	PET
SHIELDING 3	Shield	----	----
JACKET	Material	----	LDPE
	Diameter	mm	Ø 6.5+/-0.3
	Average Thickness	mm	0.6+/-0.1
	Flame Rate	----	----



FREQUENCY	RL (MIN)	IL (MAX)	DOP (MAX)	DELAY SKEW (MAX)	NEXT (MIN)	PSNEXT (MIN)	ACR-F (MIN)	PSACR-F (MIN)
(MHZ)	(dB)	(dB/100m)	(ns/100m)	(ns/100m)	(dB)	(dB)	(dB/100m)	(dB/100m)
1	20.0	2.1	570	45	74	72	67.8	65.8
4	23.0	3.9	552	45	65	63	55.7	52.7
10	25.0	6.1	545	45	59	57	47.8	44.8
16	25.0	7.6	543	45	56	54	43.7	40.7
20	25.0	8.5	542	45	55	53	41.7	38.7
31.25	23.6	10.7	540	45	52	50	37.9	34.9
62.5	21.5	15.4	538	45	47	45	31.8	28.8
100	20.1	20.3	537	45	44.3	42.3	27.8	24.8
200	18.0	29.5	536	45	39.7	37.7	21.7	18.7
250	17.3	33.3	535	45	38	36	19.8	16.8

Mechanical Characteristics

- Cable under the minimum tension: $\geq 400\text{N}$
- Conductor elongation: $\geq 15\%$
- Jacket before Aging:
Tensile strength $\geq 9.7\text{Mpa}$
Elongation $\geq 350\%$
- Jacket after Aging:
Tensile strength $\geq 75\%$ x tensile strength before aging
- Elongation $\geq 75\%$ x elongation before aging

Electrical Characteristics:

- Impedance: 1-250MHz 100 ± 15 (Ohms)
- Rated temperature: 75°C
- DC resistance unbalance (%): Max 2.5
- DC resistance 20°C : ≤ 93.8 (Ohms/Km)
- Pair-to-ground capacitance unbalance :
330 (pF/100M)
- Insulation resistance: $> 5000\text{M}\Omega \cdot \text{Km}$
- Dielectric strength: DC 2500V 2S
- CPR rating FCa



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