



**RoHS
Compliant**

Specifications

Designed of cable

Inner Conductor	: Single Bare Copper $\varnothing 0.573 \pm 0.005\text{mm}$
Insulation	: HDPE
Insulation Dia.	: $\varnothing 1.02 \pm 0.05\text{mm}$
Size of Insulation	: $\varnothing 0.87 \pm 0.05\text{mm}$
Core colour	: WH-BU /BU WH-OG/OG WH-GN /GN WH-BN /BN
First Jacket	: PVC
Colour	: White
Size	: $\varnothing 6.8 \pm 0.2\text{mm}$
Wall Thickness	: $\approx 0.8\text{mm}$
Second Jacket	: PE
Colour	: Black
Size	: $\varnothing 7.5 \pm 0.2\text{mm}$
Wall Thickness	: $\approx 0.3\text{mm}$

Electric data at 20°C

Conductor Resistance	: $\leq 70\Omega/\text{KM}$
Insulation Resistance	: $\geq 5000\text{M}\Omega \cdot \text{KM}$
Testing Voltage	: wire/wire 50Hz 1min=1.5kV
Other Electric data:	

Frequency	Impedance	RL	ATT	NEXT	ELFEXT	PSNEXT	PSELFEXT	SKW	NVP
Mhz	Ω	$\geq \text{dB}/100\text{M}$	$\leq \text{dB}/100\text{M}$	$\geq \text{dB}/100\text{M}$	$\geq \text{dB}/100\text{M}$	$\geq \text{dB}/100\text{M}$	$\geq \text{dB}/100\text{M}$	$\leq \text{ns}/100\text{M}$	
1	100±15	20	2.03	74.3	68	72.3	65	≤45	66%
4		23	3.7	65	56	63.3	53		
8		24.5	5.3	60.7	49.9	48.8	46.9		
10		25	5.9	59	48	57.3	45		
16		25	7.5	56	43.9	54.2	40.9		
20		25	8.4	55	42	52.8	39		
25		24.3	9.5	53.3	40	41.3	37		
31.25		23.6	10.6	52	38.1	49.9	35.1		
62.5	100±20	21.5	15.4	47	32.1	45.4	29.1		
100		20.1	19.8	44	28	42.3	25		
200		18	29	40	22	37.8	19		
250		17.3	32.8	38.3	20	36.3	17		

Temperature Range : -10°C to $+75^\circ\text{C}$

Part Number Table

Description	Part Number
Networking Cable, Unscreened, Cat6, 23 AWG, Black, 50m	CAT6OD 50M

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