
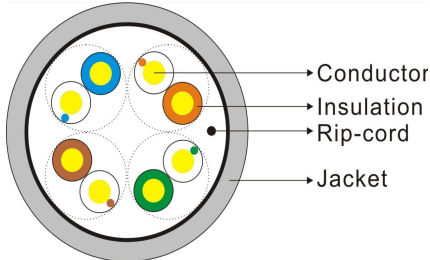


CATEGORY 5E TWISTED CABLE

Name	LAN CABLE
STYLE	CAT 5E UTP / Outdoor
MODEL	24AWGX4P
STANDARD	(REF)ISO/IEC 11801

Pair	Insulation Color and Arrangement
1P	Blue X White/Blue line
2P	Orange X White/Orange line
3P	Green X White/Green line
4P	Brown X White/Brown line

Construction		
Conductor	Material	Copper
	Cores	8 Cores
	Pairs	4 Pairs
	Diameter	$\Phi 0.5 \pm 0.005 \text{mm}$
Insulation	Material	HDPE
	Thickness	0.21mm
	Diameter	$\Phi 0.93 \pm 0.05 \text{mm}$
	Color	/
Jacket	Jacket 1	PVC
	Jacket 2	PE
	O.D.	$\Phi 5.5 \pm 0.2 \text{mm}$
	Color	Black

TRANSMISSION SPECIFICATIONS(FOR REFERENCE)						
Frequency (MHz)	Attenuation(Max) (dB/100m)	Propagation Delay	NEXT(Min) (dB/100m)	PSNEXT (Min) (dB/100m)	ELFEXT (Min) (dB/100m)	PS ELFEXT (db)
1	2	$534 + 36/\sqrt{f}$ (f:MHz)	65	62	64	61
4	4.1		56	53	52	49
10	6.5		50	47	44	41
16	8.2		47	44	40	36.9
20	9.3		46	43	38	35
31.25	11.7		43	40	34	31.1
62.5	17		38	35	28	25.1
100	22		35	32	24	21
Return Loss		$1 \leq f \leq 10 \text{MHz}$	$RL \geq 20 + 5.0 \log(f)$			
		$10 \leq f \leq 20 \text{MHz}$	$RL \geq 25$			
		$20 \leq f \leq 100 \text{MHz}$	$RL \geq 25 - 7.0 \log(f/20)$			