

UTP Cat3 cable specification

Description	
Solid annealed copper conductor	
PE insulation	
PET tape	
PVC outer jacket	

Construction

Conductor

Material	Solid annealed copper
Nom. diameter(mm)	0.5±0.01

Insulation

Material	PE
Insulation outer diameter(mm)	0.90±0.05

Twisted pairs

Color code			
1. White-Blue	14. Black-Brown		
2. White-Orange	15. Black-Grey		
3. White-Green	16. Yellow-Blue		
4. White-Brown	17. Yellow-Orange		
5. White-Grey	18. Yellow-Green		
6. Red-Blue	19. Yellow-Brown		
7. Red-Orange	20. Yellow-Grey		
8. Red-Green	21. Purple-Blue		
9. Red-Brown	22. Purple-Orange		
10. Red-Grey	23. Purple-Green		
11. Black-Blue	24. Purple-Brown		
12. Black-Orange	25. Purple-Grey		
13. Black-Green			

Stranding construction

10P 2+8	25P 3+9+13
50P 2*(12+13)	100P 4*25

Outer jacket

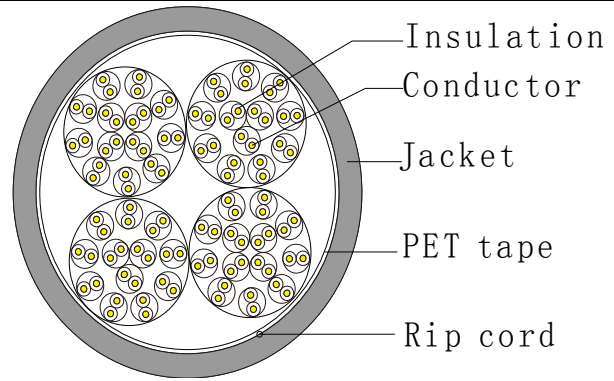
Material	PVC
Jacket color	Grey
Nom.thickness(mm)	1.0

Printing

According to customer

Single conductor resistance@20°C	≤9.5Ω/100m
Pair DC resistance unbalance	≤2.5%
Insulation resistance(20°C,DC 500V/1 min)	≥5000 MΩ·km
Dielectric strength between conductors DC.1min	1kV
Mutual capacitance	≤6.6nF/100m

Cross section



Electrical characteristics(20°C)

Transmission characteristics

Frequency	Impedance	Attenuation	NEXT	EL-FEXT
MHz	Ω	dB/100m	dB	dB/100m
1	100±15	2.6	41.3	39.0
4	100±15	5.6	32.3	27.0
8	100±15	8.5	27.8	20.9
10	100±15	9.7	26.3	19.0
16	100±15	13.1	23.2	14.9

Mechanical characteristics (20°C)

Conductor elongation at break	≥15%
Insulation elongation at break	≥300%
Jacket elongation at break	≥125%

Braun Group