



✕ Category 3 Compliant

✕ APL tape protection

✕ Direct burial or Duct applications

## Features

- Category 3 Compliant
- Direct burial or Duct applications
- High Immunity to the affects of EMI
- APL tape protection
- Metre marked to reduce waste

## Product Overview

Excel Category 3 UTP Cables are manufactured, tested and verified to the ANSI/TIA-568.B and ISO 11801 standards for Category 3 performance. The cable is constructed with a jelly filled core and covered with an APL tape.

## Construction Specification

Parameter	Value
Conductor Material	Solid Bare Copper Wire
Conductor Diameter	0.502 mm nominal
Insulation Material	Polyethylene
Insulation Diameter	0.920mm nominal
Construction	Pair
CopLOUR Codes of Pairs	see below
Units - 25 Pair Cable	1 Unit of 25 Pairs
Units - 50 Pair Cable	5 Units of 10 Pairs
Units - 100 Pair Cable	5 Units of 20 Pairs
Unit Identification	Blue, Orange, Green, Brown, Grey
Water Proof	Jelly filled over cabled pairs
Separator	Spirally Wrapped Polyester Tape
Moisture Barrier	Longitudinal Aluminium/Polyethylene Tape adhesive under sheath
Rip Cord	Nylon thread
Jacket Material	Black PE Outer Sheath
Sheath Thickness - 25 Pair	0.9 mm
Sheath Thickness - 50 Pair	1.1 mm
Sheath Thickness - 100 Pair	1.23 mm
Nominal Outside Diameter - 25 Pair	11.29 mm
Nominal Outside Diameter - 50 Pair	14.72 mm
Nominal Outside Diameter - 100 Pair	20.17 mm
Cable Weight - 25 Pair	182 kg / 1000 m
Cable Weight - 50 Pair	342 kg / 1000 m
Cable Weight - 100 Pair	655 kg / 1000 m

## Physical Properties

Parameter	Value at 20 °C
Conductor Conductivity	Minimum 98%
Conductor Elongation	Minimum 20%
Insulation Strength	Minimum 1.69 kg/mm <sup>2</sup>
Insulation Elongation	Minimum 200%
Sheath Strength	Minimum 1.0 kg/mm <sup>2</sup>

## Performance Table

Parameter	Value
Frequency Range	0.772 to 16 MHz
Conductor Resistance	9.38 $\Omega$ /100m Max
Resistance Unbalance Max	5%
Mutural Capacitance	5.6 pF/100m Max
Capacitance Unbalance Pair to Ground	330 pF/100m Max
Characteristic Impedance	100 $\pm$ 15 $\Omega$

Frequency	Attenuation dB/100m(Maximum)	Worst Pair NEXT dB/100m(Minimum)
256 kHz	1.3	
512 kHz	1.8	
772 kHz	2.2	43
1 MHz	2.6	41
4 MHz	5.6	32
8 MHz	8.5	27
10 MHz	9.7	26
16 MHz	13.1	23

## Pair Colour Codes (Unit)

1. WHITE / Blue	6. RED / Blue	11. BLACK / Blue	16. YELLOW / Blue	21. VOILET / Blue
2. WHITE / Orange	7. RED / Orange	12. BLACK / Orange	17. YELLOW / Orange	22. VOILET / Orange
3. WHITE / Green	8. RED / Green	13. BLACK / Green	18. YELLOW / Green	23. VOILET / Green
4. WHITE / Brown	9. RED / Brown	14. BLACK / Brown	19. YELLOW / Brown	24. VOILET / Brown
5. WHITE / Grey	10. RED / Grey	15. BLACK / Grey	20. YELLOW / Grey	25. VOILET / Grey

## Unit Binder Colours

Unit No.	Binder Colour
1	Blue
2	Orange
3	Green
4	Brown
5	Grey

The 50 Pair cable is constructed with each unit comprising 10 Pairs and the 100 Pair cable comprises of 20 Pair units.

## Part Number Information

Part No.	Description
100-055	Category 3 UTP External Cable - 100 pair
100-054	Category 3 UTP External Cable - 50 pair
100-053	Category 3 UTP External Cable - 25 pair

Note: Part Numbers supplied above are applicable to cable supplied by Mayflex Middle East.

Excel is a world-class premium performing end-to-end infrastructure solution - designed, manufactured, supported and delivered - without compromise.

Contact us at [sales@excel-networking.com](mailto:sales@excel-networking.com)

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