

TECHNICAL DATASHEET

CAT5e U/UTP PE 4x2x24 AWG

APPLICATION

These cables are used in data communication and analogue systems that work up to 155 Mbit/s. Also support to ISDN, 10 Base-T Ethernet, 100 Base-T Ethernet, 1000 Base-T Ethernet, TP-PMD/TP-DDI, ATM SYSTEMS.



Reference standards

IEC 61156-5, ANSI/TIA 568-D.2, ISO/IEC 11801

CONDUCTOR

Material of conductor

Electrolytic copper wire 24 AWG

INSULATION

Material of insulation

PE (Polyethylene) acc. to EN 50290-2-23

Diameter of insulation (mm)

1,00

Colour code

ANSI/TIA 568-D.2

Stranding

Two cores twisted in pair and pairs stranded together

INNER SHEATH

Material of inner sheath

PVC (Polyvinyl chloride)

OUTER SHEATH

Material of outer sheath

PE (Polyethylene) acc. to EN 50290-2-23

Overall cable diameter (mm) approx

6,30

Colour of outer sheath

BLACK

TECHNICAL CHARACTERISTICS

Maximum resistance of the conductor at 20 °C

94 Ω/km

Operating voltage

250 V

Test voltage

1200 V

Insulation resistance

5000 MΩ.km

Mutual capacitance

48 pF/m

Characteristic impedance

100 ±15 Ω

Velocity of propagation

% 67

Min. Bending radius during laying (mm)

8xCable Ø

Weight of cable (approx)

45 kg/km

ELECTRICAL CHARACTERISTICS

Frequency MHz	Attenuation (dB/100m) max.	Near end crosstalk (NEXT) (dB/100m) min.	Return loss (dB/100m) min.
1	2	68,3	20
4	4	59,3	23
10	6,5	53,3	25
16	8	50,3	25
20	9	48	25
25	10,2	47,3	24
31,25	11	45,9	22
62,5	16,5	41,4	20
100	21	38,3	19
155	25,5	36,5	18