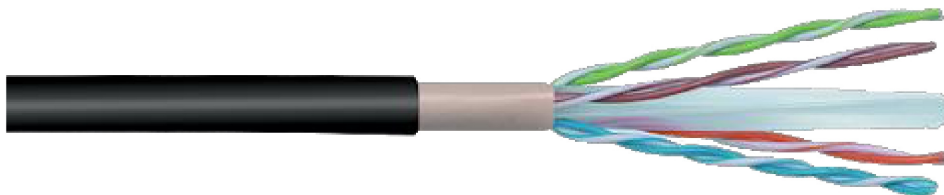


# TECHNICAL DATASHEET

## CAT6 U/UTP PE 4x2x23 AWG

### APPLICATION

These cables are used in data communication and analogue systems that work up to 250 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 23 AWG

### INSULATION

Material of insulation

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

Diameter of insulation (mm)

1,10

Colour code

ANSI/TIA 568-D.2

Stranding

4-pair common twist with central element

### 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

6,35

Colour of outer sheath

BLACK

### TECHNICAL CHARACTERISTICS

Maximum resistance of the conductor at 20 °C

78 Ω/km

Operating voltage

250 V

Test voltage

1200 V

Insulation resistance

5000 MΩ.km

Mutual capacitance

56 pF/m

Characteristic impedance

100 ±15 Ω

Velocity of propagation

% 67

Min. Bending radius during laying (mm)

8xCable Ø

Weight of cable (approx)

51 kg/km

### ELECTRICAL CHARACTERISTICS

Frequency MHz	Attenuation (dB/100m) max.	Near end crosstalk (NEXT) (dB/100m) min.	Return loss (dB/100m) min.
1	2	74,3	20
4	3,6	65,3	23,5
10	6	59,3	25
16	7,4	56	25
20	8,4	55	25
25	9,5	53,3	24,3
31,25	10,7	51,9	23,6
62,5	15,4	47,4	21,5
100	19,8	44,3	20,1
155	25	42	18,8
200	29	40	18
250	32,8	38,3	17,3