

UTP CAT. 6e

4 Pair x 23 AWG (Cu/HDPE/PVC-FR) HDPE Insulated, FR-PVC Sheathed Cable

APPLICATION

This cable is used for the high-speed transmission of voice and data between central and peripheral systems for frequencies up to 200 MHz, for E Class applications in structured cabling systems for buildings. Specifications checked up to 300 MHz.

STANDARD

IEC 11801
BS EN 50288-5-1

COLOR

Insulated core: W-Bl, W-Or, W-Br, W-G

Sheath: (Grey)

CONSTRUCTION

Conductor: Solid Plain annealed copper to ASTM B3
Insulation: High Density Polyethylene (HDPE) to EN 50290
Separator: Polyethylene
Sheath: FR-PVC, TM2 to EN 50290



PHYSICAL DATA					
Number of pair x Size	Number & diameter of wire	Approx. Core diameter	Nominal thickness of sheath	Approx. Overall diameter	Approx. weight of cable
no. x AWG	no./mm	mm	mm	mm	Kg/Km
4x2x23 AWG	1/0.57	1.0	0.9	6.60	41

TECHNICAL DATA					
Conductor resistance	Max. ring resistance	Max. mutual capacitance	Min. Insulation resistance	Standard impedance	Min. bending radius
ohm/km	ohm/100m	pF/100m	M.ohm.km	ohm	mm
71.03	14.5	48.0	500	100 ±15	25

TRANSMISSION SPECIFICATIONS						
Frequency	Attenuation Minimum value of EN 50288-3-1	NEXT Minimum value of EN 50288-3-1	PS NEXT Minimum value of EN 50288-3-1	ELFEXT Minimum value of EN 50288-3-1	PS ELFEXT Minimum value of EN 50288-3-1	Return loss
MHz	dB/100m	dB	dB	dB	dB/100m	dB
1	2.10	66.00	64.00	66.00	64.00	-
10	6.00	59.30	57.30	50.00	47.00	25.00
16	7.60	56.20	54.20	45.90	43.00	25.00
31.25	10.80	51.90	49.90	40.10	37.10	23.60
62.5	15.50	47.40	45.40	34.10	31.10	21.50
100	19.90	44.30	42.30	30.00	27.00	20.10
155	25.30	41.40	39.40	26.20	23.20	18.80
200	29.10	39.80	37.80	24.00	21.00	18.00
250	33.00	38.30	36.30	22.00	19.00	17.30
350	36.00	43.10	41.10	21.00	18.20	17.00
500	42.20	40.80	38.80	20.80	17.80	16.70

Characteristics



Installation condition

