

# UTP CAT. 6

## 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	0.8	6.50	38

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/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

#### Characteristics



#### Installation condition

