

# UTP CAT. 5

## 4 Pair x 24 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 100 MHz, for D Class applications in structured cabling systems for buildings. Specifications checked up to 200 MHz.

### STANDARD

IEC 11801  
BS EN 50288-3-1

### 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  
**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
4x2x24 AWG	1/0.50	0.9	0.7	5.20	30

### 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
84.2	16.8	49.0	500	100 ±5	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/100m	dB
1	2.10	65.30	62.30	63.80	60.80	-
10	6.30	50.30	47.30	43.80	40.80	25.00
16	8.00	47.30	44.20	39.70	36.70	25.00
31.25	11.40	42.90	39.90	33.90	30.90	23.60
62.5	16.50	38.40	35.40	27.90	24.90	21.50
100	21.30	35.30	32.30	23.80	20.80	20.10

#### Characteristics



#### Installation condition

