

# FTP CAT. 5e

## 4 Pair x 24 AWG (Cu/HDPE/Al Foil/PVC-FR)

### HDPE Insulated, Al Foil Shield, 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-BI, 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

**Drain wire:** Annealed tinned copper

**Shield:** Al Foil tape with drain wire

**Sheath:** FR-PVC, TM2 to EN 50290



#### PHYSICAL DATA

Number of pair x Size	Number & diameter of wire	Approx. Core diameter	Shield	Nominal thickness of sheath	Approx. Overall diameter	Approx. weight of cable
no. x AWG	no./mm	mm		mm	mm	Kg/Km
4x2x24 AWG	1/0.52	1.0	Al Foil Tape	0.9	5.80	36

#### 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 ±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/100m	dB
1	2.05	65.30	62.30	60.80	60.80	20.00
10	6.49	50.30	47.30	40.80	40.80	25.00
16	8.28	47.24	44.24	39.72	36.72	25.00
31.25	11.77	42.88	39.88	33.90	30.90	23.64
62.5	17.07	38.36	35.36	27.88	24.88	21.54
100	22.07	35.30	32.30	23.80	20.80	20.11
200	32.55	30.78	27.78	17.78	14.78	18.00

#### Characteristics



#### Installation condition

