

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 cables are high performance cables used increasingly for modern computer network system. These cables are the backbone of data transmission in industries, residential and commercial infrastructure.

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
Option: FRLS Type/ LSZH Type

OPERATING TEMP.

- 10°C to +60°C
 Max Short Circuit 160°C

WORKING FREQUENCY

1-100 MHz

MIN. BENDING RADIUS

Approx. 10x Cable diameter

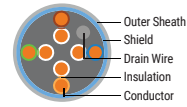
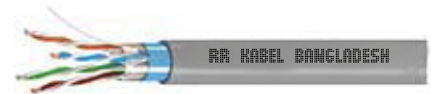
STANDARD

ISO/IEC 11801
 ANSI/TIA/EIA-568-B
 BS EN 50288-3-1

COLOR

Insulated Core: W-BI, W-Or, W-Br, W-G
Sheath: ● Grey

*REACH | RoHS | CE



CHARACTERISTICS



INSTALLATION CONDITION



CABLE DESIGN PARAMETER

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
4x2x24AWG	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