

# Copper Structured Cabling Solutions

## Category 6 Cable

### Category 6 (4 Pair) F/UTP UV Cable



#### Temperature Range

- Installation: 0°C to + 50°C
- Operational: -20° C to +70° C

#### Electrical Characteristics 20° C

- Delay Skew (450 nsec/km) Maximum
- Velocity of Propagation (%) 68
- Capacitance Unbalance (1000 pf/km) maximum
- DC Resistance 80Ω/km maximum
- Resistance Unbalance (%) max 2.0
- Characteristic Impedance 100Ω ± 15% @ 1.0Mhz-100Mhz
- Characteristic Impedance 100Ω ± (15%+0.5(f-100)) @ 100Mhz-250Mhz

Specifications	
Fire Safety Rating	IEC 60332 Part 1
Conductor - Material	Solid Bare Copper
Conductor - Dimension	23 AWG (0.565mm)
Insulation - Material	Polyolefin
Sheath - Material	PVC Black UV
External - O.D	7.9mm
Screen	Aluminium Laminate Screen
Pairs	4 Twisted Pairs
Pair Colour Code	Blue/White-Blue, Orange/White-Orange, Green/White-Green, Brown/White-Brown

### Technical Performance 100m:

ELECTRICAL CHARACTERISTICS STANDARD FOR CATEGORY 6

Frequency MHz	Attenuation dB/100 m	NEXT dB	PSNEXT dB	ACR	PSACR	ELFEXT dB	PSELFEXT dB	Return Loss
1	2.0	74.3	72.3	72.3	70.3	67.8	64.8	20.0
4	3.8	65.3	63.3	61.5	59.5	55.8	52.8	23.0
8	5.3	60.8	58.8	55.4	53.4	49.7	46.7	24.5
10	6.0	59.3	57.3	53.3	51.3	47.8	44.8	25.0
16	7.6	56.2	54.2	48.6	46.7	43.7	40.7	25.0
20	8.5	54.8	52.8	46.3	44.3	41.8	38.8	25.0
25	9.5	53.3	51.3	43.8	41.8	39.8	36.8	24.3
31.25	10.7	51.9	49.9	41.1	39.2	37.9	34.9	23.6
62.5	15.4	47.4	45.4	32	30	31.9	28.9	21.5
100	19.8	44.3	42.3	24.5	22.5	27.8	24.8	20.1
200	29.0	39.8	37.8	10.8	8.8	21.8	18.8	18.0
250	32.8	38.3	36.3	5.5	3.5	19.8	16.8	17.3

#### Part Number

G6-FUTP-C6-X1-Y-\* Cat6 F/UTP Solid Cable PVC Black UV

Available in other colours & LSZH on request

X - Jacket/Sheath: X1=PVC Black UV, X2=LSZH  
 Y - Color: 1=BLUE, 2=GREY, 3=WHITE, 4=GREEN, 5=YELLOW, 6=PURPLE, 7=RED, 8=PINK, 9=ORANGE, 10=BLACK  
 \* - Reel Length: 3=305m, 5=500m